W-1911

Capt Hepworth

WEEKLY WEATHER REPORT, MAP SHOWING DISTRICTS AND DISTRICT STATIONS, DECEMBER 1911.

Scale 1: 5,000,000.

The names of Stations not used in the calculations of Meteorological values for Districts for the elements rainfall and temperature are shewn in italic type. The positions of sunshine stations are not shewn if the values are not incorporated in the District values.

Ordnance Survey, Southampton, 1912.

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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1911

(VOL. XXVIII.—NEW SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH THREE APPENDICES AND FRONTISPIECE MAP

AND FORMING

PART I. OF THE BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK.

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CONTENTS.

THE WEEKLY WEATHER REPORT.

	PAGE
FRONTISPIECE MAP SHOWING THE POSITIONS OF STATIONS INCLUDED IN THE WEEKLY WEATHER REPORT - - - - - - - -	to face Title.
PREFACE - - - - - - - - - - -	3
WEEKLY REPORTS - - - - - - - - - - -	9
SPECIAL SUPPLEMENTS :	
Results of Registering Balloon Ascents, September 11th to 15th, 1911 - -	304*a*
Summaries of the records obtained with kites and registering balloons, and of the observations of sea-temperature.	424*a*
APPENDICES :	
I.—Summaries of the rain-days, rainfall, mean temperature, and bright sunshine for each lustrum of the period 1881-1910, for each quarter and for the whole year.	425
II.—Weekly and Progressive Values for each *District* for 1911 of the different elements, namely :—	435
Rain-Days,	
Rainfall,	
Accumulated Temperature above 42° F.,	
Accumulated Temperature below 42° F.,	
Bright Sunshine—Duration,	
Bright Sunshine—Percentage.	
III.—Readings of Anemometers amounting to or exceeding a velocity of 44 statute miles per hour.	441

THE MONTHLY WEATHER REPORT.

Issued as a Supplement to the Weekly Weather Report and forming Part II. of the British Meteorological and Magnetic Year Book.

FRONTISPIECE MAP SHOWING THE POSITIONS OF STATIONS INCLUDED IN THE MONTHLY WEATHER REPORT.

INTRODUCTION WITH SUB-TITLE PAGE, LIST OF STATIONS AND NAMES OF VOLUNTARY OBSERVERS.

MONTHLY WEATHER REPORTS.

ANNUAL SUMMARY.

PREFACE.

No change was made in the arrangement of the Weekly Weather Report for the year 1911.

The general arrangement of the weekly issues of the Report is as follows :—

I. General Remarks and characterisation of the warmth, rainfall, and sunshine of each district.
II. Weekly, Seasonal, and Annual Summaries, arranged under *Districts*.
III. Weekly Summary arranged under *Stations*.
IV. Temperature on the Grass and in the Ground.
V. Temperature of the Sea.
VI. Daily Charts.
VII. Observations in the Upper Air.

The information given under each of these heads may be summarised as follows :—

I. *General Remarks* on the weather for the week. A tabular statement describing the warmth, rainfall and sunshine experienced in each district in accordance with the following definitions :—

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The meteorological character of the current season and of the last four completed seasons is summarised in a table giving for each season the number of occasions on which the warmth, rainfall and sunshine fell within each of the three main divisions.

II. *Weekly Summary* for *Districts*.—The Tabular Summary on the second page of each Report gives for the week and for each District :—

Temperature.—The highest and lowest observed, with the dates of their occurrence, the mean maximum, the mean minimum, the mean temperature, and its difference from the average for the corresponding period. The values for "accumulated temperature" above 42° F. and below 42° F. for the week and for the periods from the beginning of the season and of the year, and the differences from the average values for the corresponding periods. The averages* are derived from observations extending over the 25 years 1881–1905.

Rainfall.—The total fall and the number of rain-days for the week, and for the part of the season and year to date, together with the differences from average* for the corresponding periods based on observations from 1881–1905.

Bright Sunshine.—The number of hours of sunshine recorded, and the percentage ratio of that time to the whole time during which the sun was above the horizon: also the progressive values reckoned from the commencement of the season and of the year, together with the differences between these values and the averages* for the corresponding periods in the 25 years 1881 to 1905.

III. *Weekly Summary* for *Stations*.—This appears on the third page in each weekly issue and contains the data used in the preparation of the Summaries on the first page, the values being set out for each Station. The information given is in nearly the same form as that presented for each District in II., but cumulative values for the season and the year are not given for stations. Values not used for the calculation of summaries for districts are printed in italic type.

IV. *Temperature on the Grass and in the Ground.*—For selected stations the number of occasions during the week on which the temperature on the grass fell to 30° or below this limit, and the minimum temperature; the mean temperature in the ground at depths of 1 foot and 4 feet. This table was first added in the 18th week of 1906.

83

* For particulars of the method of computing average values for districts, *see* Preface to the Weekly Weather Report for 1907.

(24212—24.) Wt. 113—4. 450. 6/12. D & S.

V. The mean temperature of the surface of the sea, and the highest and lowest readings at a selection of stations on the coast of the British Islands. This table has been included since the commencement of 1907.

VI. *Daily Charts.*—These are three in number for each day, and they show the distribution of pressure and wind over the whole of Europe at 7 a.m. and 6 p.m., and the temperature, weather, and sea disturbance at 7 a.m. each day. The maps are accompanied by a brief account of the weather conditions for the day, and the changes that have taken place since the previous day.

VII. *Observations in the Upper Air.*—The temperature, humidity, and wind direction and velocity at various heights in the free atmosphere, as determined from experiments with kites or balloons, have been given since the commencement of 1906.

The results of kite ascents are shown on the last page of each issue of the report. Results obtained from experiments with registering balloons or pilot balloons are shown on the fourth page.

The observing stations which contribute regularly to the report are the following :—

Pyrton Hill, Oxon, W. H. Dines, F.R.S., for the Office.
Petersfield, Ditcham Park, C. J. P. Cave, J.P.
Brighton, S. H. R. Salmon.
Manchester, The University.

From the commencement of 1909, the results of observations in the upper air have been stated in metric units.

In order to avoid negative values, the temperatures are given in Centigrade degrees from the "absolute zero" or, more strictly speaking, from 273° below the freezing point of water ; and in recording the air pressure for different points of the ascents the unit of one megadyne per square centimetre or one million absolute C.G.S. centimetre-gramme-second units of pressure is employed because the megadyne represents practically the normal surface pressure at the level of the observing stations and consequently the pressure figures in megadynes per square centimetre (mgd.) give the fraction of pressure of the atmosphere which is still above the instrument. Thus an entry in the pressure column of 0·527 mgd. means that the instrument was at a point where the atmospheric pressure was reduced approximately to ·527 of the surface value. It is noteworthy that the conversion from mm. of mercury (in latitude 45°) to mgd. can be carried out with an accuracy of 0·1 mm. by adding one third and moving the decimal point and that a megadyne exceeds the weight of a kilogramme by less than 2 per cent.

The units adopted for the various elements are as follows :—

Altitude, Metres (m.) or Kilometres (km.).
Wind Direction, Angular measure from North through East.
Wind Velocity, Metres per second (mps.).
Temperature, the absolute scale of centigrade degrees (Freezing point of water=273° A., Normal Boiling point of water=373° A.).
Pressure, Megadynes per square centimetre (mgd.) or bars.

In expressing the results of temperature measurements, the figure in the "hundreds" place is omitted, thus freezing points=32° F.=0° C.=73° A.

Tables for converting from British Units to the metric or absolute units are given below (pp. 6, 7).

Stations and Districts.

The stations used in the preparation of the Report are shown in the Frontispiece Map. Particulars of their altitudes &c. will be found in the introduction to the Monthly Weather Report. Sunshine Records from Edinburgh were not received after June, 1910, and no similar station has been found as a substitute. Minor changes are the publication of sunshine records for Salcombe, of sea temperatures for Scilly, and of ground frosts for West Linton.

The boundaries of the 12 districts into which the British Islands are divided are shown on the map. Their subdivisions are also shown.

Daily Mean Temperature.

The daily Mean Temperature shown in the Tables in the *Weekly* Reports is calculated from the mean between the daily maxima and minima, due regard being paid to the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the self-registering Observatories of the Meteorological Committee.

The approximate Mean Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - 48°·1
The mean minimum - - - - - - - - - - - - - - 39°·3
The difference is- - - - - - - - - - - - - - 8°·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean temperature of the week.

ACCUMULATED TEMPERATURE.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. For *Districts*, cumulative values for the whole period since the commencement of the season and the year are published in addition to the values for each week. The base temperature adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in cases 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4; for 52° F., 0·33; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

DAILY CHARTS.

In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale (forces 10—12, Beaufort scale); ⟶ = a gale (forces 8 and 9); ⟶ = a moderate breeze to high wind (forces 4 to 7); ⟶ = a light air to gentle breeze (forces 1—3); and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for the morning are prepared from observations made at 8 a.m. in Spain; at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France* and Algeria*; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 8.36 a.m. in Portugal.

The Chart for the evening is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France*; 6.51 p.m. in Algeria*; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

* These are the times prior to the adoption of Greenwich time in France. The change took place during the first half of the year 1911.

Conversion Tables for Expressing the Results of Observations in the Upper Air in Absolute Units.

A.—Altitude Scales.

CONVERSION OF ENGLISH FEET TO METRES.

English Feet.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.
	METRES.									
0	0	0·3	0·6	0·9	1·2	1·5	1·8	2·1	2·4	2·7
10	3·1	3·4	3·7	4·0	4·3	4·6	4·9	5·2	5·5	5·8
20	6·1	6·4	6·7	7·0	7·3	7·6	7·9	8·2	8·5	8·8
30	9·1	9·5	9·8	10·1	10·4	10·7	11·0	11·3	11·6	11·9
40	12·2	12·5	12·8	13·1	13·4	13·7	14·0	14·3	14·6	14·9
50	15·2	15·5	15·9	16·2	16·5	16·8	17·1	17·4	17·7	18·0
60	18·3	18·6	18·9	19·2	19·5	19·8	20·1	20·4	20·7	21·0
70	21·3	21·6	21·9	22·3	22·6	22·9	23·2	23·5	23·8	24·1
80	24·4	24·7	25·0	25·3	25·6	25·9	26·2	26·5	26·8	27·1
90	27·4	27·7	28·0	28·4	28·7	29·0	29·3	29·6	29·9	30·2
100	30·5	30·8	31·1	31·4	31·7	32·0	32·3	32·6	32·9	33·2

1 Kilometre = 1,000 metres.

The above table may be used also for converting heights expressed in English Feet into Kilometres by suitably adjusting the decimal point, *e.g.*, 45,000 ft. = 13·7 kms. ; 6,700 ft. = 2·04 kms.

CONVERSION OF KILOMETRES INTO ENGLISH FEET UP TO 25 KMS.

Kms.	1,000 Feet.	Kms.	1,000 Feet.	Kms.	1,000 Feet.	Kms.	1,000 Feet.	Kms.	1,000 Feet.
0·5	1·6	5·5	18·0	10·5	34·4	15·5	50·9	20·5	67·3
1·0	3·3	6·0	19·7	11·0	36·1	16·0	52·5	21·0	68·9
1·5	4·9	6·5	21·3	11·5	37·7	16·5	54·1	21·5	70·5
2·0	6·6	7·0	23·0	12·0	39·4	17·0	55·8	22·0	72·2
2·5	8·2	7·5	24·6	12·5	41·0	17·5	57·4	22·5	73·8
3·0	9·8	8·0	26·2	13·0	42·7	18·0	59·1	23·0	75·5
3·5	11·5	8·5	27·9	13·5	44·3	18·5	60·7	23·5	77·1
4·0	13·1	9·0	29·5	14·0	45·9	19·0	62·3	24·0	78·7
4·5	14·8	9·5	31·2	14·5	47·6	19·5	64·0	24·5	80·4
5·0	16·4	10·0	32·8	15·0	49·2	20·0	65·6	25·0	82·0

B.—Wind Measurements.

CONVERSION OF WIND DIRECTION INTO ANGULAR MEASURE.

Direction.	Angle.	Direction.	Angle.	Direction.	Angle.	Direction.	Angle.
N.	360	E.	90	S.	180	W.	270
N. by E.	11¼	E. by S.	101¼	S. by W.	191¼	W. by N.	281¼
N.N.E.	22½	E.S.E.	112½	S.S.W.	202½	W.N.W.	292½
N.E. by N.	33¾	S.E. by E.	123¾	S.W. by S.	213¾	N.W. by W.	303¾
N.E.	45	S.E.	135	S.W.	225	N.W.	315
N.E. by E.	56¼	S.E. by S.	146¼	S.W. by W.	236¼	N.W. by N.	326¼
E.N.E.	67½	S.S.E.	157½	W.S.W.	247½	N.N.W.	337½
E. by N.	78¾	S by E.	168¾	W. by S.	258¾	N. by W.	348¾

Sin 11¼° = Cos 78¾° = ·195.
Sin 22½° = Cos 67½° = ·383.
Sin 33¾° = Cos 56¼° = ·556.
Sin 45° = Cos 45° = ·707.
Sin 56¼° = Cos 33¾° = ·832.
Sin 67½° = Cos 22½° = ·924.
Sin 78¾° = Cos 11¼° = ·981.

CONVERSION OF WIND VELOCITY IN MILES PER HOUR INTO METRES PER SECOND.

Miles per Hour.	0.	1.	2.	3	4.	5.	6.	7.	8.	9.
	METRES PER SECOND.									
0	0·00	0·5	0·9	1·3	1·8	2·2	2·7	3·1	3·6	4·0
10	4·5	4·9	5·4	5·8	6·3	6·7	7·2	7·6	8·1	8·5
20	8·9	9·4	9·8	10·3	10·7	11·2	11·6	12·1	12·5	13·0
30	13·4	13·9	14·3	14·8	15·2	15·7	16·1	16·5	17·0	17·4
40	17·9	18·3	18·8	19·2	19·7	20·1	20·6	21·0	21·5	21·9
50	22·4	22·8	23·3	23·7	24·1	24·6	25·0	25·5	26·0	26·4
60	26·8	27·3	27·7	28·2	28·6	29·1	29·5	30·0	30·4	30·9
70	31·3	31·7	32·2	32·6	33·1	33·5	34·0	34·4	34·9	35·3
80	35·8	36·2	36·7	37·1	37·6	38·0	38·4	38·9	39·3	39·8
90	40·2	40·7	41·1	41·6	42·0	42·5	42·9	43·4	43·8	44·3
100	44·7	45·2	45·6	46·0	46·5	46·9	47·4	47·8	48·3	48·7
110	49·2	49·6	50·1	50·5	51·0	51·4	51·9	52·3	52·8	53·2
120	53·6	54·1	54·5	55·0	55·4	55·9	56·3	56·8	57·2	57·7
130	58·1	58·6	59·1	59·5	59·9	60·4	60·8	61·2	61·7	62·1
140	62·5	63·0	63·5	63·9	6 4·4	64·8	65·3	65·7	66·2	66·6

C.—Temperature Measurements.

Conversion of Degrees Centigrade and Fahrenheit into Degrees Absolute. Freezing Point = 273°.

C.	A.	F.	C.	A.	F.	C.	A.	F.	C.	A.	F.
—73	[2]00	—99·4	—48	[2]25	—54·4	—23	[2]50	—9·4	+2	[2]75	+35·6
72	1	97·6	47	26	52·6	22	51	7·6	3	76	37·4
71	2	95·8	46	27	50·8	21	52	5·8	4	77	39·2
70	3	94·0	45	28	49·0	20	53	4·0	5	78	41·0
69	4	92·2	44	29	47·2	19	54	2·2	6	79	42·8
68	5	90·4	43	30	45·4	18	55	— 0·4	7	80	44·6
67	6	88·6	42	31	43·6	17	56	+ 1·4	8	81	46·4
66	7	86·8	41	32	41·8	16	57	3·2	9	82	48·2
65	8	85·0	40	33	40·0	15	58	5·0	10	83	50·0
64	9	83·2	39	34	38·2	14	59	6·8	11	84	51·8
63	10	81·4	38	35	36·4	13	60	8·6	12	85	53·6
62	11	79·6	37	36	34·6	12	61	10·4	13	86	55·4
61	12	77·8	36	37	32·8	11	62	12·2	14	87	57·2
60	13	76·0	35	38	31·0	10	63	14·0	15	88	59·0
59	14	74·2	34	39	29·2	9	64	15·8	16	89	60·8
58	15	72·4	33	40	27·4	8	65	17·6	17	90	62·6
57	16	70·6	32	41	25·6	7	66	19·4	18	91	64·4
56	17	68·8	31	42	23·8	6	67	21·2	19	92	66·2
55	18	67·0	30	43	22·0	5	68	23·0	20	93	68·0
54	19	65·2	29	44	20·2	4	69	24·8	21	94	69·8
53	20	63·4	28	45	18·4	3	70	26·6	22	95	71·6
52	21	61·6	27	46	16·6	2	71	28·4	23	96	73·4
51	22	59·8	26	47	14·8	—1	72	30·2	24	97	75·2
50	23	58·0	25	48	13·0	**0**	**273**	**32**	25	98	77·0
—49	[2]24	—56·2	—24	[2]49	—11·2	+1	[2]74	+33·8	+26	[2]99	+78·8

D.—Pressure Measurements.

CONVERSION OF BAROMETRIC MEASURES IN MILLIMETRES AT 0° C. IN LATITUDE 45° TO MEGADYNES PER SQUARE CENTIMETRE.

Millimetres.	0	10	20	30	40	50	60	70	80	90
	MEGADYNES PER SQUARE CENTIMETRE.									
100	·133	·146	·160	·173	·187	·200	·213	·227	·240	·253
200	·267	·280	·293	·307	·320	·333	·347	·360	·373	·387
300	·400	·413	·427	·440	·453	·467	·480	·493	·507	·520
400	·533	·547	·560	·573	·587	·600	·613	·627	·640	·653
500	·667	·680	·693	·707	·720	·733	·747	·760	·773	·787
600	·800	·813	·827	·840	·853	·867	·880	·893	·907	·920
700	·933	·947	·960	·973	·986	1·000	1·013	1·027	1·040	1·053
	Increments for changes by millimetre intervals.									
	1	2	3	4	5	6	7	8	9	
	1·3	2·7	4·0	5·3	6·7	8·0	9·3	10·7	12·0	

A pressure due to 10 mm. of Mercury at freezing point in latitude 45° is equal to $1{\cdot}3332 \times 10^4$ dynes per square centimetre. The conversion from millimetres to megadynes per square centimetre may therefore be made in a very simple manner by taking $\frac{1}{3}$ of the value in millimetres and adding it to the original value, the decimal point being suitably adjusted, thus :—

$$759{\cdot}6 \text{ mms.} = \left(759{\cdot}6 + \frac{759{\cdot}6}{3}\right)\frac{1}{1000} \text{ mgd.}$$
$$= {\cdot}0128 \text{ mgd.}$$

CONVERSION OF PRESSURE MEASUREMENTS IN INCHES TO MEGADYNES PER SQUARE CENTIMETRE.

Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.
5·0	·169	10·0	·339	15·0	·508	20·0	·677	25·0	·847	30·0	1·016
5·5	·186	10·5	·356	15·5	·525	20·5	·694	25·5	·864	30·5	1·033
6·0	·203	11·0	·373	16·0	·542	21·0	·711	26·0	·881	31·0	1·050
6·5	·220	11·5	·389	16·5	·559	21·5	·728	26·5	·898	31·5	1·067
7·0	·237	12·0	·406	17·0	·576	22·0	·745	27·0	·914		
7·5	·254	12·5	·423	17·5	·593	22·5	·762	27·5	·931		
8·0	·271	13·0	·440	18·0	·610	23·0	·779	28·0	·948		
8·5	·288	13·5	·458	18·5	·627	23·5	·796	28·5	·965		
9·0	·305	14·0	·474	19·0	·644	24·0	·813	29·0	·982		
9·5	·322	14·5	·491	19·5	·660	24·5	·830	29·5	·999		

INCREMENTS FOR CHANGES BY TENTH INCH INTERVALS.

1.	2.	3.	4.
·003	·007	·010	·014

INCREMENTS FOR CHANGES BY HUNDREDTH INCH INTERVALS.

1.	2.	3.	4.	5.	6.	7.	8.	9.
·000	·001	·001	·001	·002	·002	·002	·003	·003

APPENDICES.

Appendix I. has been issued for each quarter of the year in the form slightly different to that adopted in the corresponding Appendix of previous years. It shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the average, (3) the mean temperature and its difference from the average, (4) the duration of bright sunshine and its percentage of the average for each of the six lustra in the period 1881 to 1910 and for the year 1911. The averages are computed in each case for the 30 years 1881–1910. In previous years the values (1), (2), (3), (4) were given for each individual year of the period since 1878.

Appendix II., the resumé of weekly values for districts, has been published in the same form as in previous years.

Appendix III. gives a summary of the occasions on which wind velocities amounting to or exceeding 44 statute miles in the hour, as recorded by a "Dines" pressure tube anemometer or by a "Robinson" cup anemometer, with the factor adjusted to give the corresponding result, were recorded at any of the anemometer stations in connexion with the Office. Similar tables were published in Appendix III. to the Reports for 1907–1910, as special supplements to the Reports for 1905 and 1906, and in the Annual Reports of the Meteorological Council for the years 1902, 1903, 1904.

THE BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK.

For the convenience of libraries and others the various serial statistical publications of the Meteorological Office have been grouped together under the general title "British Meteorological Year Book."

The other parts are as follows :—

Part II.—Monthly Weather Report. Issued monthly on the 27th of each month, with an annual summary, as a supplement to the Weekly Weather Report. Price 6*d.* each issue.

Part III.—(i) Daily readings at stations of the First and Second Orders. Issued in Monthly Parts within about five weeks of the close of each month. Price 1*s.* each part.

(ii) The Geophysical Journal of the Observatories of the Meteorological Office. Issued in Monthly Parts, with an Annual Supplement. Price 4*d.* each part.

Part IV.—(i) Meteorological Office Observatories Hourly Values—Meteorological Section. Obtained from Self-recording instruments at three Observatories. Issued in monthly parts for each Observatory. Price 6*d.* each part.

(ii) Meteorological Office Observatories—Hourly Values—Geophysical Section. Published with an introduction and Summary at the end of each year.

Meteorological Office,
London, S.W.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII. (New Series.) } No. 1. FIRST WEEK, SUNDAY, JANUARY 1ST, TO SATURDAY, JANUARY 7TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally fair to fine at the beginning of the week, but subsequently became very cloudy in the south and east (with frequent precipitation), and much less fair in the west and north-west. In the north-west of Great Britain and the north of Ireland the conditions were brighter than in other districts, and most of the days were without rain. A severe thunderstorm, accompanied by snow and hail, was experienced in several parts of Norfolk during the early hours of the 2nd.

Temperature was about equal to the normal in north-eastern, eastern and central England, but below it elsewhere, as much as 2° in England S.W., and nearly 3° in Ireland S. The highest of the maxima were recorded at most stations either on the 1st or 7th, and ranged from 52° in Ireland S., and slightly above 50° in most of the western districts to 48° in England E. and S.E. The lowest of the minima occurred on the 4th in most northern localities, but on rather irregular dates generally. They varied from 16° in Scotland E. (at Balmoral on the 4th), 20° in Scotland N. and 21° in Ireland to 30° in England E., and to 34° in the English Channel. The lowest grass readings were 9° at Llangammarch Wells, 14° at Balmoral, 15° at Newton Rigg, 17° at Markree Castle and 19° at Armagh, Cardiff, Aspatria and Crathes.

Mean Temperature of the Sea.—On nearly all parts of the coast the water was colder than during the corresponding week of last year, the greatest differences being 2·6° at Teelin and 2·9° at Cromarty. The means for the week ranged from between 47° and 49° on the south-west coast of England to about 46° at Lamlash, Port Erin, Sheephaven and Seafield, and to 39·5° at Cromarty.

Rainfall exceeded the average in England N.E., E. and S.E, but was less elsewhere. At some of the western and north-western stations the falls were heavy towards the close of the week.

Bright Sunshine was above the average in Ireland, Scotland and the western districts of England, about equal to it or rather less in the eastern, central and south-eastern districts. The percentage of the possible duration ranged from 37 in Ireland N. and 29 in Scotland W. to 16 in England E., 15 in the Midland Counties, and to 14 in England N.E.

Barometer and Wind.—No large and deep depressions passed across the United Kingdom, and over a considerable area the pressure distribution was at times anti-cyclonic. Soon after the beginning of the week the movement southward of a depression beyond the North Sea was accompanied by an increase of the wind from the Northward or North-Westward in Great Britain, a gale being experienced at a few spots both on the western and eastern coasts. During the prevalence of a band of high pressure stretching from north-east to south-west over these islands about the middle of the week a light to moderate Southerly breeze was experienced on our western and north-western coasts, and Northerly or North-Easterly breezes in the east and south. During the passage of a well developed "V shaped" disturbance from west to east over the United Kingdom on Friday the line of demarcation between the opposing Southerly and Northerly wind currents was extremely well marked.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 12.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate
	Sunshine ...	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Very abundant	Abundant	Very abundant	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 5 weeks from Dec. 4th, 1910.	Warmth ...	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	2 * 0	3 * 0	3 * 1	3 * 1	1 * 1	3 * 0
	Rainfall ...	1 * 2	0 * 1	2 * 1	2 * 0	2 * 1	2 * 1	2 * 1	1 * 0	2 * 1	1 * 2	2 * 3	2 * 1
	Sunshine ...	2 * 0	3 * 1	2 * 2	0 * 2	1 * 1	1 * 1	3 * 2	3 * 1	1 * 1	2 * 1	0 * 2	0 * 0

PAST SEASONS.

WINTER, 1909-10. Dec. 5th-March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th-June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th-Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th-Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

9183 / 450 Wy. & S., Ltd. 1—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIRST WEEK—January 1st to January 7th, 1911.

DISTRICTS. (See Frontispiece, map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	49	20	42·2	32·1	37·3	− 0·5	1	− 5	36	− 1	4	− 1	0·82	−0·27	8	+ 3	18	+ 8
Eastern																		
1. SCOTLAND, EAST	50	16	40·8	30·6	35·9	− 0·5	0	− 5	43	− 1	5	+ 1	0·34	−0·26	10	+ 4	22	+ 7
2. ENGLAND, N.E.	49	27	41·8	33·8	38·0	+ 0·2	0	− 6	28	− 9	6	+ 2	0·64	+0·22	7	0	14	0
3. ENGLAND, EAST	48	30	40·7	33·6	37·3	0·0	0	− 8	33	− 9	6	+ 2	0·83	+0·38	8	− 1	16	− 2
4. MIDLAND COUNTIES	49	27	41·1	32·8	37·1	− 0·1	0	− 9	34	− 8	5	+ 1	0·41	−0·14	8	− 1	15	− 1
5. ENGLAND, S.E.	48	27	41·6	33·7	37·8	− 1·3	0	−12	29	− 3	6	+ 2	0·58	+0·04	10	0	18	0
Western																		
6. SCOTLAND, WEST	49	23	42·9	32·0	37·6	− 1·1	3	− 5	37	+ 6	3	− 2	0·86	−0·23	14	+ 8	29	+15
7. ENGLAND, N.W.	51	27	42·0	33·2	37·8	− 1·3	0	−10	29	− 1	3	− 1	0·44	−0·24	14	+ 7	26	+13
8 ENGLAND, S.W.	51	22	43·5	33·9	38·9	− 2·1	4	−12	31	+ 8	4	− 1	0·71	−0·20	15	+ 5	27	+ 9
9. IRELAND, NORTH	51	21	44·0	32·9	38·7	− 1·5	6	− 6	35	+ 10	4	− 1	0·66	−0·15	19	+ 11	37	+21
10. IRELAND, SOUTH	52	21	45·1	33·1	39·3	− 2·7	9	−11	35	+ 16	5	0	0·57	−0·48	13	+ 3	25	+ 6
11. ENGLISH CHANNEL	51	34	46·1	39·0	42·7	− 1·8	18	− 8	8	− 1	7	+ 2	0·78	−0·02	11	− 3	19	− 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 5 Weeks, December 4th, 1910 to January 7th, 1911.

0. SCOTLAND, NORTH	54	20	*	*	*	*	69	+ 29	91	− 68	31	+ 5	5·78	−0·61	25	+ 3	11	+ 1
Eastern																		
1. SCOTLAND, EAST	57	16	*	*	*	*	69	+ 34	104	− 96	25	+ 4	2·65	−0·59	47	+13	20	+ 5
2. ENGLAND, N.E.	56	20	*	*	*	*	81	+ 40	78	− 84	24	+ 6	2·43	−0·01	41	0	16	0
3. ENGLAND, EAST	57	25	*	*	*	*	105	+ 58	81	−104	26	+ 6	3·35	+1·16	40	− 3	15	− 3
4. MIDLAND COUNTIES.. ..	57	23	*	*	*	*	94	+ 43	81	−108	27	+ 8	3·61	+0·94	38	− 3	14	− 1
5. ENGLAND, S.E.	55	23	*	*	*	*	125	+ 50	69	− 64	25	+ 5	4·20	+1·35	50	0	18	0
Western																		
6. SCOTLAND, WEST	53	23	*	*	*	*	77	+ 21	71	− 56	30	+ 6	6·04	+0·11	41	+ 8	16	+ 3
7. ENGLAND, N.W.	57	22	*	*	*	*	88	+ 29	56	− 73	26	+ 5	4·14	+0·45	45	+10	18	+ 4
8. ENGLAND, S.W.	55	19	*	*	*	*	120	+ 24	54	− 39	28	+ 5	6·72	+1·74	50	− 1	19	0
9. IRELAND, NORTH	54	21	*	*	*	*	102	+ 35	62	− 50	29	+ 4	3·61	−0·63	48	+ 5	19	+ 2
10. IRELAND, SOUTH	57	21	*	*	*	*	123	+ 12	53	− 32	30	+ 6	4·66	−0·51	47	− 6	18	− 2
11. ENGLISH CHANNEL	57	32	*	*	*	*	198	+ 43	8	− 20	30	+ 5	4·50	+0·20	62	− 3	22	− 1

THE YEAR.—Aggregates, &c., for the Period of 1 Week, January 1st to January 7th, 1911.

0. SCOTLAND, NORTH	49	20	*	*	*	*	1	− 5	36	− 1	4	− 1	0·82	−0·27	8	+ 3	18	+ 8
Eastern																		
1. SCOTLAND, EAST	50	16	*	*	*	*	0	− 5	48	− 1	5	+ 1	0·34	−0·26	10	+ 4	22	+ 7
2. ENGLAND, N.E.	49	27	*	*	*	*	0	− 6	28	− 9	6	+ 2	0·64	+0·22	7	0	14	0
3. ENGLAND, EAST	48	30	*	*	*	*	0	− 8	33	− 9	6	+ 2	0·83	+0·38	8	− 1	16	− 2
4. MIDLAND COUNTIES.. ..	49	27	*	*	*	*	0	− 9	34	− 8	5	+ 1	0·41	−0·14	8	− 1	15	− 1
5. ENGLAND, S.E.	48	27	*	*	*	*	0	− 12	29	− 3	6	+ 2	0·58	+0·04	10	0	18	0
Western																		
6. SCOTLAND, WEST	49	23	*	*	*	*	3	− 5	37	+ 6	3	− 2	0·86	−0·23	14	+ 8	29	+15
7. ENGLAND, N.W.	51	27	*	*	*	*	0	− 10	29	− 1	3	− 1	0·44	−0·24	14	+ 7	26	+13
8. ENGLAND, S.W.	51	22	*	*	*	*	4	− 12	31	+ 8	4	− 1	0·71	−0·20	15	+ 5	27	+ 9
9. IRELAND, NORTH	51	21	*	*	*	*	6	− 6	35	+ 10	4	− 1	0·66	−0·15	19	+ 11	37	+21
10. IRELAND, SOUTH	52	21	*	*	*	*	9	− 11	35	+ 16	5	0	0·57	−0·48	13	+ 3	25	+ 6
11. ENGLISH CHANNEL	51	34	*	*	*	*	18	− 8	8	− 1	7	+ 2	0·78	−0·02	11	− 3	19	− 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*43*	*7th*	*33*	*1st*	*41·6*	*35·7*	*38·8*	—	*0*	*22*	*6*	*1·09*	—	*4·9*	—	*13*	—	*Baltasound.*
	a Sumburgh Head ..	47	5th	30	2nd	44·1	33·4	39·0	− 0·6	6	33	6	1·13	+ 0·14	8·6	+ 2·7	20	+ 6	Deerness.
	a Stornoway	48	7th	35	3rd, 7th	42·3	36·1	39·3	0·0	1	22	5	0·65	− 0·62	11·4	+ 5·4	26	+12	Stornoway.
	a *Castlebay, Barra Isd.*	*49*	*7th*	*35*	*7th*	*44·0*	*37·7*	*41·6*	− *0·7*	*6*	*18*	*4*	*0·88*	—	*5·7*	—	*12*	—	*Castlebay.*
	a Wick	45	7th	30	4th	42·0	33·3	37·8	− 0·6	0	29	5	0·22	− 0·38	*	*	*	*	*
	p Strathpeffer.. ..	49	1st	20	3rd	41·5	28·7	35·4	− 1·7	0	46	3	0·24	− 0·53	6·6	− 0·4	14	− 1	Strathpeffer.
	p Glencarron ..	46	6th	23	4th	41·1	30·7	36·1	− 0·7	0	41	4	1·37	− 0·97	*	*	*	*	*
b, Mainland.	p Fort Augustus	47	1st, 7th	25	3rd	41·7	31·2	36·7	− 1·1	0	37	5	0·52	− 0·76	6·2	+ 3·3	14	+ 7	Fort Augustus.
	p Fort William	49	1st	22	4th	42·4	31·2	37·0	− 2·5	1	39	3	1·62	− 0·56	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle	50	1st	25	4th	42·1	31·2	36·9	− 1·5	0	40	5	0·28	− 0·26	*7·7*	—	*17*	—	*Gordon Castle.*
	a Nairn	49	7th	20	4th	40·3	29·4	35·1	− 2·3	0	48	3	0·13	− 0·32	15·9	—	35	—	Nairn.
	a Aberdeen	46	7th	29	4th	42·0	33·7	38·0	+ 0·2	0	28	6	0·60	+ 0·03	7·2	− 2·6	16	− 6	Aberdeen.
	a Balmoral ..	49	1st	16	4th	40·0	26·7	33·6	− 0·9	0	59	6	0·56	− 0·14	6·1	—	13	—	Crathes S.
	p Crieff	49	1st	24	4th	40·3	30·0	35·4	− 1·9	0	46	4	0·50	− 0·42	9·2	—	19	—	Balruddery
	a Leith	50	7th	33	4th	43·0	36·3	39·8	+ 0·5	3	22	4	0·10	− 0·29	*	*	*	*	Edinburgh.
	p West Linton..	44	1st	20	4th	38·4	26·9	32·9	− 3·6	0	64	4	0·22	—	*12·2*	—	*25*	—	*West Linton.*
	p Marchmont ..	43	1st	28	5th, 6th	40·3	30·3	35·5	− 1·2	0	46	5	0·32	− 0·22	12·6	+ 3·7	26	+ 8	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	49	1st, 2nd	30	7th	43·9	33·0	38·7	+ 0·4	5	35	6	0·80	+ 0·23	8·8	—	18	—	Cockle Park.
	a Shields	49	7th	30	7th	43·0	34·3	38·8	− 0·1	3	29	4	0·37	− 0·03	*3·3*	− *2·1*	7	− *4*	*Newcastle.*
	p Durham	48	1st	30	5th	40·7	32·8	36·9	− 0·5	0	36	5	0·57	+ 0·18	6·3	− 3·3	13	− 7	Durham.
	p Rounton ..	48	1st	27	7th	40·9	31·4	36·3	− 1·2	0	40	5	0·62	+ 0·22	*	*	*	*	*
	p Scarborough..	46	1st	33	7th	43·4	36·6	40·1	+ 1·2	4	21	6	0·79	+ 0·31	8·3	—	16	—	Scarborough.
	p York	47	1st	30	7th	41·3	33·6	37·6	− 0·6	0	31	7	0·81	+ 0·41	2·9	− 3·3	6	− 7	York.
b, South.	a Spurn Head ..	43	1st, 6th	31	2nd	41·9	35·3	38·7	− 0·4	0	23	4	0·75	+ 0·40	*	*	*	*	*
	a Lincoln	45	1st	29	7th	41·0	33·5	37·4	0·0	0	32	7	0·60	+ 0·20	8·7	—	17	—	Skegness.
	a Fulbeck	45	7th	29	7th	40·4	33·5	37·1	− 0·2	0	34	7	0·45	+ 0·05	8·2	—	16	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	48	1st	31	7th	42·3	33·1	37·9	+ 0·6	1	33	7	0·87	—	*9·4*	—	*18*	—	*Lowestoft.*
	p Hillington ..	48	1st	30	7th	39·8	32·9	36·5	− 0·8	0	39	7	1·09	+ 0·61	7·4	—	14	—	Cromer.
	a Yarmouth	43	1st	31	1st	41·1	34·6	38·0	− 0·1	0	28	6	0·98	+ 0·55	4·9	− 5·1	9	− 10	Hillington.
	a Norwich	43	1st, 7th	31	6th, 7th	40·8	33·2	37·2	− 0·7	0	34	7	1·18	—	9·6	—	18	—	Yarmouth.
	p Geldeston	43	1st	31	6th, 7th	40·8	33·0	37·1	− 1·4	0	34	7	0·88	+ 0·48	*	*	*	*	*
	p Cambridge	45	1st	30	7th	40·4	33·7	37·2	− 0·8	0	34	6	0·72	+ 0·40	7·7	− 3·7	15	− 7	Geldeston.
b, South.	a *Felixstowe* ..	*43*	*1st, 7th*	*32*	*1, 2, 7th*	*41·1*	*33·9*	*37·6*	− *1·3*	*0*	*31*	*7*	*0·68*	—	*9·5*	—	*18*	—	Cambridge.
	a Clacton-on-Sea ..	44	1st	31	1st	41·4	33·9	37·8	− 0·9	0	29	6	0·65	—	*9·7*	—	*18*	—	*Felixstowe.*
	a Rothamsted ..	45	1st	31	2nd	39·8	33·2	36·6	− 1·2	0	38	6	0·47	0·00	9·5	—	18	—	Clacton.
	a *Shoeburyness* ..	*44*	*1st, 7th*	*31*	*2nd*	*40·9*	*33·6*	*37·4*	− *1·6*	*0*	*32*	*6*	*0·54*	+ *0·24*	9·9	− 0·4	18	− 1	Rothamsted.
	p Tottenham	46	1st	33	2nd, 3rd	40·3	34·9	37·7	− 1·2	0	30	6	0·62	—	*8·3*	—	*15*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	a Harrogate	45	1st	31	7th	39·1	32·7	36·0	− 1·2	0	42	6	0·53	− 0·02	6·8	—	13	—	Tottenham.
	a Bawtry	46	7th	29	1st	41·1	32·6	37·0	− 0·8	0	35	6	0·41	+ 0·02	5·3	—	10	—	Harrogate.
	p *Buxton* .. M	*39*	*7th*	*28*	*2nd*	*36·2*	*30·9*	*33·7*	− *2·0*	*0*	*58*	*6*	*1·19*	+ *0·06*	5·6	− 1·9	11	− 4	Worksop.
	a Nottingham ..	46	1st	32	7th	41·4	35·0	38·3	+ 0·3	0	26	6	0·40	− 0·03	*5·0*	—	*10*	—	*Buxton.*
	p Birmingham, Edgbsn	46	1st	32	2nd	40·2	33·2	36·8	− 1·1	0	36	3	0·48	0·00	4·9	—	9	—	Nottingham.
	a Raunds	45	1st	28	7th	40·6	32·8	36·9	− 0·6	0	36	4	0·46	—	2·8	—	5	—	Birmingham.
b, West.	a Oxford	46	7th	32	2nd, 7th	41·1	34·6	38·0	− 0·9	0	28	6	0·32	− 0·10	*	*	*	*	*
	a Cheadle	43	7th	29	2nd	38·7	32·0	35·5	− 1·6	0	46	5	0·53	− 0·06	9·8	− 0·4	18	− 1	Oxford.
	p Shrewsbury ..	47	1st	28	6th	44·9	31·1	38·3	− 0·8	8	42	2	0·06	—	4·8	—	9	—	Sheffield.
	a Hereford	47	7th	28	6th	41·2	31·7	36·6	− 1·9	0	38	4	0·26	− 0·24	*	*	*	*	*
	a Cirencester	45	1st, 7th	27	7th	40·9	31·3	36·3	− 1·6	0	40	6	0·56	0·00	*	*	*	*	*
	a Bath	49	1st	30	7th	43·3	34·0	38·8	− 1·0	4	30	3	0·46	− 0·12	11·8	+ 1·6	22	+ 3	Cirencester.
5. ENGLAND, S.E.	p Kew	47	1st	32	7th	41·0	34·5	37·9	− 1·3	0	29	6	0·48	+ 0·09	16·4	—	30	—	Bath.
	a Marlborough ..	46	1st, 7th	27	7th	41·0	32·6	37·0	− 0·8	0	35	6	0·62	+ 0·02	*9·9*	—	*18*	—	*Ramsgate.*
	a Margate	46	7th	33	3rd	42·0	34·9	38·6	− 1·1	0	24	6	0·63	+ 0·22	5·7	− 3·2	11	− 6	Kew.
	a Wisley, Surrey ..	47	7th	31	2nd	41·9	33·7	38·0	− 1·4	0	28	7	0·39	—	6·8	− 1·9	13	− 4	Marlborough.
	a Swarraton .. M	47	1st	29	7th	41·1	32·6	37·0	− 1·0	0	35	5	0·50	− 0·10	8·2	− 2·3	15	− 4	Margate.
	a Tunbridge Wells M	45	7th	30	2nd, 3rd	39·8	31·8	36·0	− 2·1	0	42	7	0·85	+ 0·25	7·9	—	15	—	Wisley.
	a Dungeness	46	7th	28	1st	42·4	32·9	37·8	− 2·2	1	33	7	0·67	+ 0·24	9·8	− 0·2	18	0	Worthing.
	p Hastings	45	1st	30	7th	40·6	33·5	37·2	− 2·9	0	34	7	0·54	− 0·02	7·4	—	14	—	Tunbridge Wells.
	p Southampton ..	48	1st	31	2nd, 7th	42·0	34·0	38·2	− 1·8	0	27	6	0·56	− 0·06	*12·7*	− *0·4*	*23*	− *1*	*Hastings.*
	a Ventnor	48	1st, 7th	31	2nd	43·5	35·6	39·7	− 2·8	4	25	4	0·59	0·00	9·4	− 1·6	17	− 3	Littlestone.
															11·6	− 0·3	21	− 1	Southampton.
															12·1	− 0·1	22	0	Ventnor.
LONDON ..	a *Westminster* ..	*47*	*1st, 7th*	*32*	*7th*	*42·7*	*35·1*	*39·1*	− *0·1*	*2*	*26*	*6*	*0·55*	+ *0·16*	*0·6*	− *2·9*	*1*	− *5*	*Westminster.*
	a *Greenwich*	*46*	*1st, 7th*	*32*	*3rd, 7th*	*41·5*	*34·0*	*37·9*	− *2·0*	*0*	*29*	*6*	*0·47*	+ *0·08*	*3·1*	− *5·2*	*6*	− *10*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	47	7th	24	4th	41·6	31·7	36·9	− 2·7	0	36	5	1·11	− 0·03	*	*	*	*	*
	p Glasgow	48	1st	27	4th	42·0	32·8	37·6	− 1·2	0	31	3	0·42	− 0·38	7·7	+ 3·4	16	+ 7	Glasgow.
	p Rothesay .. S	49	1st	30	4th	43·9	33·6	39·0	− 0·9	5	32	4	0·97	− 0·07	*	*	*	*	*
	a Kilmarnock	48	7th	23	4th	42·3	30·0	36·4	− 3·6	1	44	3	0·78	—	*17·7*	—	*36*	—	*Kilmarnock.*
	a Colmonell .. S	49	7th	23	4th	42·8	31·9	37·6	− 2·8	2	38	3	1·10	+ 0·03	*	*	*	*	*
	p Dumfries .. S	47	1st	29	4th, 7th	41·3	30·7	36·2	− 2·4	0	41	3	0·38	− 0·45	*14·7*	—	*29*	—	*Dumfries.*
b, ISLE OF MAN	p Cally, Gatehouse S	46	7th	25	4th	43·9	29·8	37·1	− 1·4	5	46	3	1·15	+ 0·07	*	*	*	*	*
	p Douglas	48	7th	33	4th	45·0	35·2	40·3	− 0·9	8	27	3	0·96	+ 0·06	20·9	+10·7	41	+21	Douglas.
7. a, ENGLAND, N.W.	p Aspatria	46	1st, 7th	27	4th	41·2	29·8	35·7	− 2·6	0	44	4	0·35	− 0·35	12·5	—	24	—	Hoylake.
	p Newton Rigg ..	47	1st	27	4th, 7th	39·0	29·8	34·6	− 2·4	0	52	4	0·39	− 0·39	19·1	—	38	—	Aspatria.
	p Stonyhurst	46	1st	31	7th	40·3	32·6	36·6	− 1·7	0	38	4	0·47	− 0·50	13·2	+ 5·0	26	+10	Newton Rigg.
	p Blackpool .. M	46	1st	29	4th	42·0	32·7	37·5	− 1·6	0	32	3	0·41	− 0·22	8·0	+ 1·3	15	+ 3	Stonyhurst.
	p M'nch'ster, Prestwich	45	1st	31	2nd	41·2	33·2	37·4	− 1·0	0	32	4	0·45	− 0·31	18·1	+10·8	35	+21	Blackpool.
	a Liverpool (Bidston)	48	7th	33	6th	42·1	35·6	39·0	− 1·2	0	24	4	0·39	− 0·11	*4·8*	+ *0·7*	*9*	+ *1*	*Prestwich.*
	a Hawarden Bridge ..	51	7th	31	6th	42·6	34·5	38·7	− 2·0	2	28	1	0·01	− 0·41	*15·7*	—	*30*	—	*Liverpool.*
b, NORTH WALES	p Llandudno .. M	49	7th	33	4th	44·6	36·2	40·6	− 1·2	7	24	3	0·19	− 0·41	*15·7*	+ *7·9*	*30*	+*15*	*Southport.*
	p Holyhead	49	7th	35	4, 5, 6th	44·9	38·0	41·6	− 0·7	8	17	3	0·69	− 0·05	—	—	—	—	*Rhyl.*
	p Bettws-y-Coed ..	47	1st	28	4th	42·0	30·0	36·2	− 5·1	0	41	3	1·05	—	10·7	+ 1·1	21	+ 2	Llandudno.
															22·2	—	42	—	Aberdovey.
															5·0	—	10	—	Bettws-y-Coed.
															20·8	—	39	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	48	7th	22	2nd	41·9	29·3	35·9	− 1·7	0	43	3	0·80	—	9·5	—	18	—	Llangammarch Wells.
	a Pembroke	50	1st	31	4th	46·1	37·1	41·8	− 1·5	11	21	5	1·21	+ 0·40	15·4	+ 4·5	29	+ 8	Pembroke.
	a Cardiff	49	1st	29	6th	42·6	31·8	37·4	− 2·2	2	38	3	0·87	− 0·03	*20·1*	—	*37*	—	*Cardiff.*
															14·3	+ *2·6*	*27*	+ *5*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	48	1st	30	6th	43·2	34·0	38·8	− 1·7	3	30	4	0·33	− 0·35	*10·1*	—	*19*	—	*Clifton.*
	a Shaftesbury .. M	45	1st	27	2nd	39·0	31·6	35·5	− 2·5	0	46	5	0·31	− 0·27	*	*	*	*	*
	a Arlington	47	7th	30	4th, 6th	42·9	33·1	38·2	− 1·6	3	33	4	1·06	− 0·11	12·4	+ 1·0	22	+ 2	Newquay.
	a Cullompton .. M	51	1st	24	6th	43·8	32·0	38·1	− 2·1	5	38	3	0·39	− 0·38	16·2	+ 6·9	30	+13	Cullompton.
	a Portland Bill ..	50	1st	34	2nd	44·9	37·6	41·4	− 1·1	8	18	3	0·31	—	*17·3*	—	*31*	—	*Weymouth.*
	p Plymouth	51	1st	32	2nd, 7th	45·3	35·9	40·8	− 1·9	9	25	3	0·87	+ 0·02	15·3	+ 4·0	27	+ 7	Plymouth.
	p Falmouth	50	1st	32	4th	44·8	36·9	41·0	− 3·1	8	21	3	0·90	− 0·23	14·5	+ 1·9	26	+ 3	Falmouth.
															17·4	+ *4·9*	*31*	+ *9*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	48	7th	31	4th	43·0	35·7	39·5	− 2·0	3	24	4	0·26	− 0·39	*	*	*	*	*
	a Blacksod Point ..	51	7th	32	4th	45·0	36·0	40·7	− 2·2	8	25	4	1·27	+ 0·07	*	*	*	*	*
	p Markree Castle ..	51	7th	23	4th	44·9	29·3	37·4	− 2·5	8	49	4	0·67	− 0·24	21·6	+13·1	42	+26	Markree Castle.
	a Birr Castle	50	7th	21	3rd, 4th	43·1	27·9	35·8	− 4·2	3	52	4	0·57	− 0·10	*17·6*	+ *6·8*	*34*	+*13*	*Birr Castle.*
b, East.	a Armagh	48	7th	29	3rd	43·4	31·6	37·7	− 2·1	4	39	4	0·48	− 0·10	16·5	+ 7·2	32	+14	Armagh.
	a Donaghadee	48	7th	32	7th	44·7	37·1	41·1	+ 0·2	8	20	4	0·72	+ 0·09	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	50	7th	31	2nd	45·1	33·0	39·3	− 2·6	9	35	3	0·22	− 0·26	10·1	− 2·3	19	− 4	Phœnix Park.
	a Kilkenny	50	7th	26	4th, 5th	43·3	29·9	36·9	− 3·6	4	45	4	0·57	− 0·19	*	*	*	*	*
	a Waterford	50	1st	28	2nd	44·9	32·7	39·0	− 2·8	8	36	3	0·60	− 0·32	*	*	*	*	*
b, West.	a Birr Castle	50	7th	21	3rd, 4th	43·1	27·9	35·8	− 4·2	3	52	4	0·57	− 0·10	17·6	+ 6·8	34	+13	Birr Castle.
	a Foynes	51	7th	28	4th	45·4	34·0	39·9	− 2·4	10	32	6	0·70	− 0·20	*	*	*	*	*
	a Cahir .. .. M	50	1st, 7th	21	4th	43·8	31·4	37·9	− 3·8	5	40	5	0·81	—	*	*	*	*	*
	a Killarney	52	7th	26	2nd, 3rd	46·7	33·4	40·3	− 2·5	13	35	6	0·45	− 1·05	*	*	*	*	*
	a Valencia	52	7th	33	3rd	47·6	38·3	43·1	− 2·0	23	10	5	0·70	− 0·64	11·7	+ 1·3	22	+ 3	Valencia.
	a Roche's Point ..	51	1st	32	2nd	45·6	37·3	41·6	− 2·3	10	20	5	0·53	− 0·57	13·6	—	25	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	51	1st	34	4th	47·6	38·7	43·3	− 3·2	23	9	7	0·94	+ 0·14	11·0	− 1·3	20	− 2	Scilly.
	a Jersey, St. Aubins ..	51	1st	36	6th	45·6	38·7	42·3	− 1·0	16	9	7	0·69	− 0·08	9·7	− 4·8	17	− 8	St. Heliers.
	a Guernsey	50	1st	38	2, 3, 4th	45·0	39·5	42·4	− 1·7	13	7	7	0·71	− 0·12	12·3	+ 1·6	22	+ 3	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	38·1	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	41·5
	Crathes	6	19	36·3	40·2
	Balmoral	7	14	—	—
	West Linton ..	?	?	—	—
	Marchmont ..	5	24	34·6	—
2.	Cockle Park	5	25	35·6	40·0
	Durham	3	24	—	—
	York	—	—	39·6	43·4
	Hull	3	23	37·6	43·7
	Lincoln	—	—	36·8	42·5
	Rauceby	5	23	37·9	43·8
3.	Norwich	5	25	—	—
	Yarmouth	—	—	37·4	43·4
	Lowestoft	4	27	38·0	43·1
	Cambridge	4	23	37·6	43·4
	Clacton-on-Sea ..	3	26	40·0	45·4
	Southend	3	25	39·1	—
	Tottenham	2	26	—	45·0
4.	Harrogate ..	3	26	38·8	41·2
	Huddersfield ..	4	27	37·8	42·5
	Buxton	7	21	37·0	43·4
	Sheffield	3	28	37·9	43·1
	Nottingham	3	24	36·4	41·3
	Birmingham	5	26	39·1	44·9
	Oxford	3	24	—	—
	Hereford	6	22	—	—
	Cirencester	6	26	39·0	43·5
	Bath	—	—	—	—
5.	Margate	0	32	40·2	44·2
	Greenwich	2	27	—	—
	Westminster ..	2	24	—	—
	Kew	3	22	38·0	44·6
	Canterbury	1	28	39·3	45·5
	Tunbridge Wells ..	4	22	38·1	—
	Wisley ..	4	22	37·5	42·6
	Worthing	3	25	37·8	45·2
	Portsmouth ..	2	24	39·7	45·8
6.	Glasgow	5	21	—	—
	Rothesay	—	—	—	43·3
	Colmonell	3	20	—	—
6.	Dumfries	5	24	36·7	41·7
	Douglas	3	27	—	—
7.	Aspatria	5	19	37·8	44·1
	Newton Rigg ..	7	15	39·3	42·3
	Burnley	5	21	37·1	42·7
	Southport	6	19	36·4	42·0
	Manchester City ..	1	30	38·3	44·2
	Bettws-y-Coed ..	4	26	39·9	44·9
8.	Llangammarch Wells	7	9	39·1	45·6
	Cardiff	5	19	38·3	44·4
	Clifton	6	24	—	—
	Plymouth	6	24	41·2	—
9.	Armagh	5	19	40·8	44·7
	Markree	4	17	41·3	46·3
10.	Dublin, Trin. Coll. ..	6	23	39·6	44·9
11.	Guernsey, Brooklyn	0	31	43·4	48·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	43	43·0
	Kirkwall	42	40	40·8
	Wick	?	?	?
SCOTLAND, E.	Cromarty	41	38	39·5
	Pennan Bay	42	40	41·0
	Aberdeen, Cove Bay ..	44	42	43·5
ENGLAND, N.E.	Burnmouth, Berwick ..	42	41	41·4
	Scarborough	44	42	43·2
ENGLAND, E.	Shipwash Lightship ..	43	41	41·9
	Margate‡	43	38	41·1
ENGLAND, S.E.	Eastbourne‡	43	42	42·3
SCOTLAND, W.	Lamlash	47	45	46·2
	Ballantrae	45	42	42·8
ENGLAND, N.W.	Port Erin	47	44	45·7
ENGLAND, S.W.	Newquay	48	47	47·3
	Scilly	50	47	48·2
	Plymouth‡	49	49	49·1
	Salcombe	49	45	47·3
IRELAND, N.W.	Sheephaven	46	45	45·6
	Teelin	47	41	44·2
IRELAND, S.W.	Cleggan	46	40	44·3
	Seafield	48	44	45·9
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

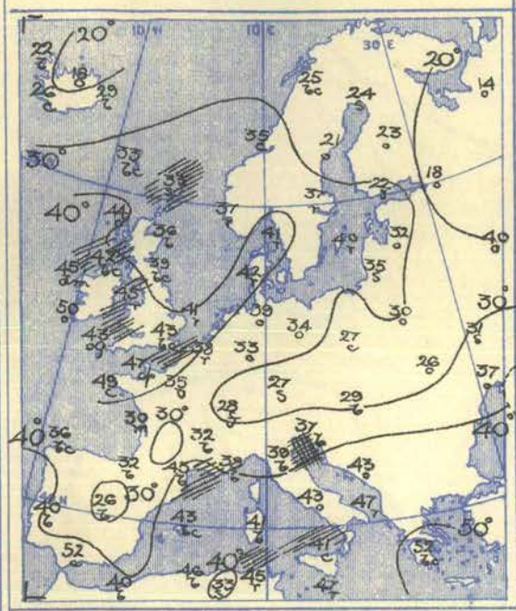
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

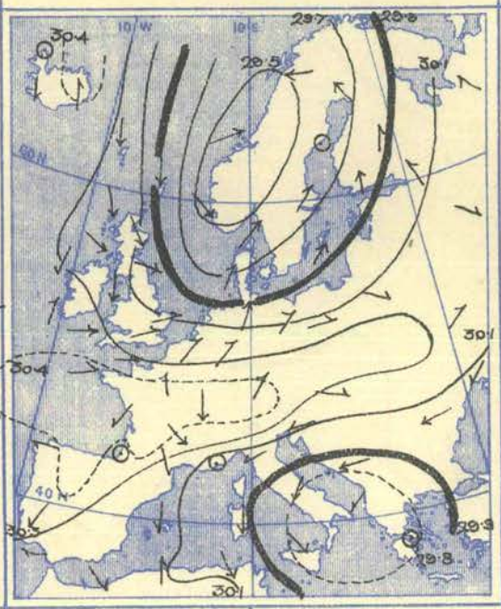
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

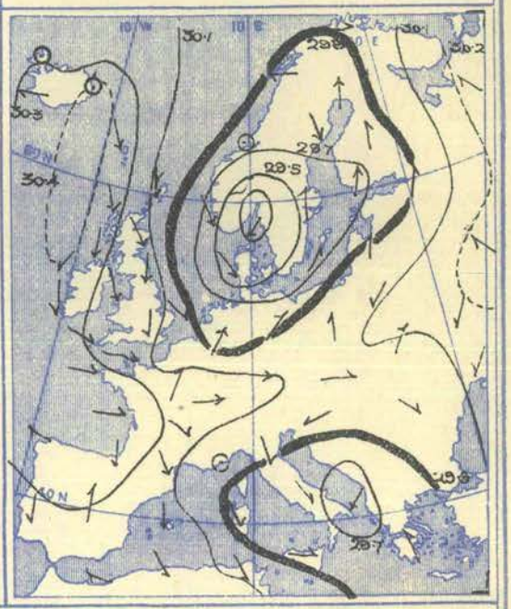
Sunday, 1st January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in several parts of England and Ireland, and also at various stations over the adjacent portion of the Continent, snow falling at some places in central and northern Europe, as well as at Setif (Algeria), and rain at Brindisi and Malta. Fair to very fine over a large area in southern Europe. Slight rain experienced later in most parts of these Islands, and larger amounts of rain or snow in many regions on the Continent. A severe thunderstorm, with snow, at Norwich, Cromer, and other parts of Norfolk during night or early on Monday morning.

Temperature changed rather irregularly. Morning readings above 45° in the south-west of these Islands and at several stations in the extreme south of our area; below 32° over most of the mainland of the Continent, and below 20° in the north-east of Russia. Rising to about 50° during day on our west and south-west coasts in Brittany, and the south of France, to 57° at Algiers, and to 61° at Athens. Frost continuing all day in some parts of central Europe, and sharp frost in central Ireland at night.

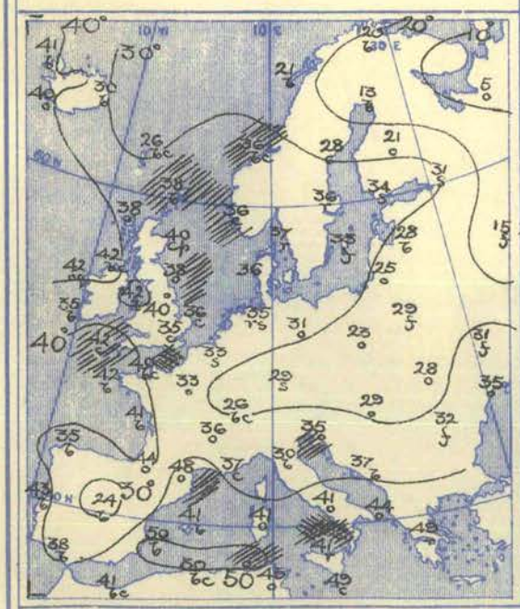
Wind in morning anticyclonic over the Bay of Biscay region, cyclonic elsewhere. High from North or North-West on some parts of our western coasts, and blowing a gale from North-West at Skudesnaes. Moderate to high from the South-Westward over Denmark and the Baltic. A high wind from East prevailing over the Adriatic, and a moderate to strong North-Westerly breeze on the Mediterranean. Becoming more Northerly during day in these Islands and blowing a strong gale at Sumburgh Head. Increasing to a gale from South-West over some parts of the Baltic.

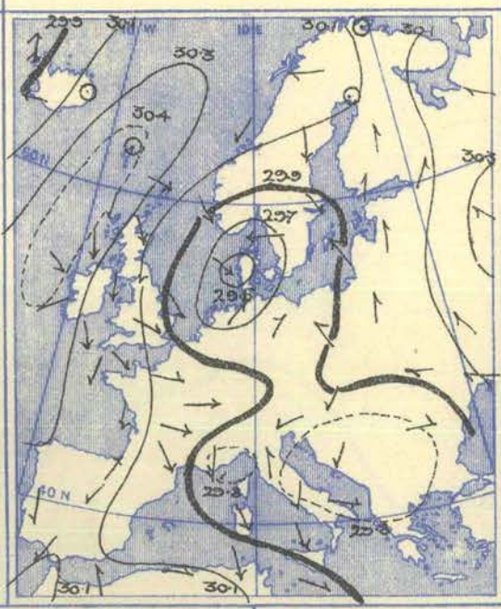
Barometer in morning above 30·4 ins. in Iceland and also in an area comprising the Bay of Biscay, France, and Bavaria and relatively high in a band connecting the two systems; below 29·8 ins. in a large depression having its centre near Brindisi, and below 29·5 ins. in another over Norway. Latter increasing in depth during day, undergoing considerable modification in form, and moving Southward. Pressure rising in the north of these Islands, but beginning to fall again in Iceland.

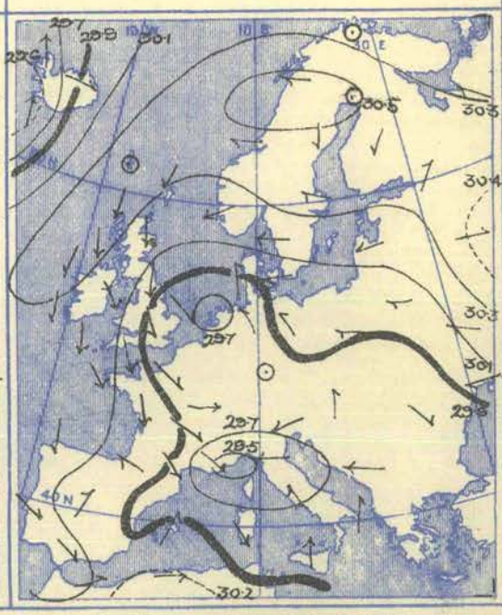
Monday, 2nd January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rough and squally over all the north-western countries, with showers at a few of our own stations and snow or rain in places over the Netherlands western Germany, Denmark, and southern Scandinavia, and also over the Gulf of Finland. Rain falling at Athens and Palermo, but conditions fair to fine in the south generally. Rain or snow experienced later in most parts of Great Britain and over a large portion of the Continent. Snow at Nice and Leghorn.

Temperature risen in Scotland and the west of France, fallen in most other regions. Morning readings ranging from 5° at Archangel and below 32° over the major portion of the Continent, including central Spain, to 37° at Nice and to 50° at some stations on the coast of Algeria. Thermometer as low as 32° at Setif and 33° at Laghouat. Thermometer remaining below 40° throughout the day in several British districts, and below 32° at various stations in central Europe and the east of France, as well as at Turin, but touching or exceeding 55° in the extreme south of our area. Sharp frost at night in central Ireland.

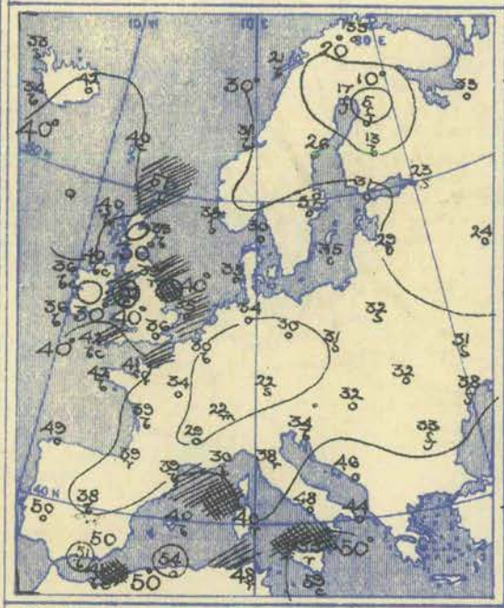
Wind in morning cyclonic very generally, the chief movement being around Denmark. North-Easterly current blowing a gale over the south of Scandinavia and that from North-West strong to a gale on the east coast of England. A Southerly gale prevailing in Iceland. Decreasing somewhat in force later on our east coast, but increasing to a gale from North at Holyhead. Southerly gale continuing in the south-west of Iceland.

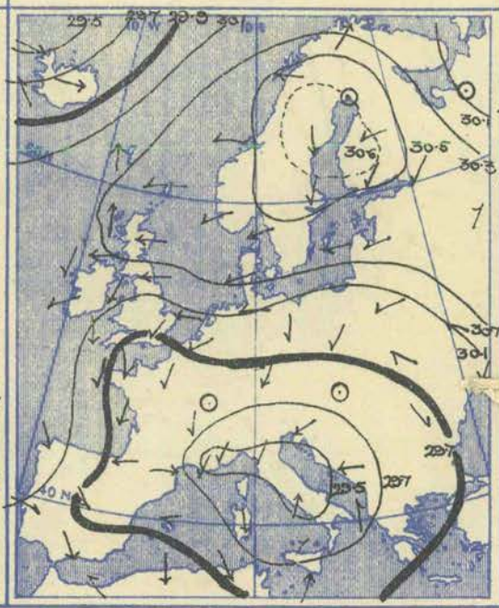
Barometer in morning above 30·4 ins. in an elongated anticyclone to the west of these Islands, and nearly as high in central Russia; below 29·5 ins. in a very large depression having its minimum over Jutland, and relatively low in other systems in the south of our area, and also to the west of Iceland. Main depression moving South-Westward later and becoming rather less deep, but that over the Gulf of Genoa region increasing considerably in intensity. Barometer rising decidedly in Scandinavia and Shetland.

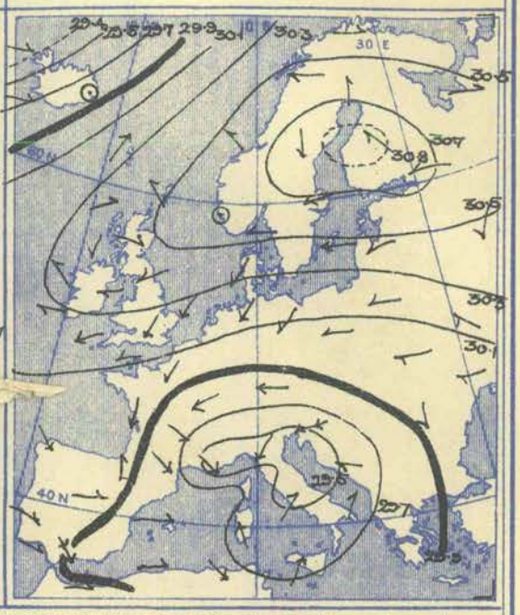
Tuesday, 3rd January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning squally and rough over a considerable portion of Great Britain, with showers of hail on the east coast and of rain in some other localities. Fine and bright in various parts of Ireland and Scotland, and along the west coast of Norway, but dull over Scandinavia generally and also over the central countries and Russia, with snow in a few places. Rainy at many stations in southern Europe. About 0·5 in. of rain later at some of our western and north-western stations, with thunder and lightning, and also at Bilbao, and 1·0 in. at Turin, Lesina, and Rome. At Turin there was much snow. A thunderstorm, with rain and hail, at Algiers.

Temperature fallen in most regions. Readings in morning ranging from a little above 50° at some stations in the extreme south to below 32° over the major portion of the Continent and in central Ireland and Scotland and to below 10° in the north of Finland. Rising to 51° during day at Valencia, and to a little above at a few stations in the extreme south of our area, but only touching 40° in the east of this country, 33° at Turin, and remaining below 32° in the east of France and at some places in central Europe. Maximum only 37° at Setif.

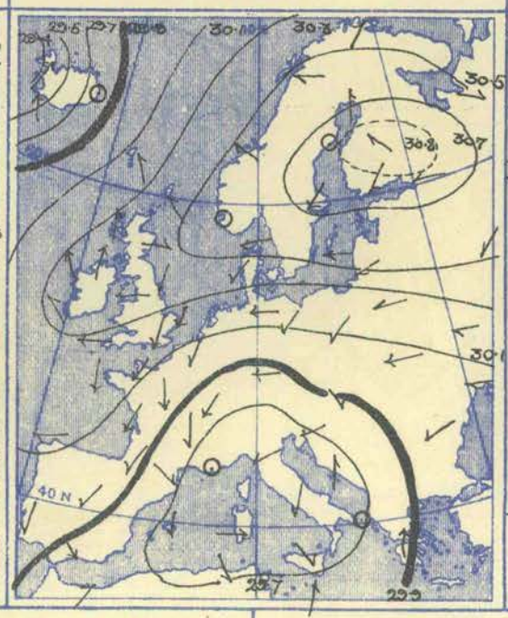
Wind in morning showing a cyclonic circulation of considerable strength over the southern countries, and an anticyclonic movement over northern Europe. Easterly and North-Easterly current strong to a gale on the east coast of England, and Northerly current strong on our western coast. A high Easterly wind prevailing at Trieste and a high wind from the Westward at Sfax. A moderate to high South-Westerly wind prevalent in Iceland. Increasing to a strong gale later at Trieste, and blowing a gale from North-West at Malaga.

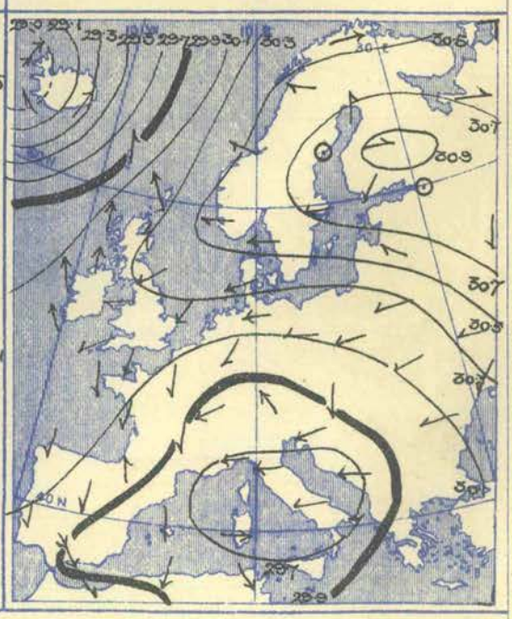
Barometer in morning above 30·6 ins. in a high pressure system centred over northern Scandinavia; below 29·5 ins. in a large depression centred over Italy, and equally low to the north-westward of Iceland. High pressure system increasing in intensity during day and extending both in an Easterly and South-Westerly direction. Southern depression growing rather deeper and larger. Pressure giving way briskly in Iceland.

Wednesday, 4th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.





Weather in morning fine and bright over the greater portion of the Spanish Peninsula and in a few scattered localities elsewhere, but very cloudy or overcast in most other regions, with rain or snow in several places. Snow falling at Setif. Slight rain experienced later in most parts of the United Kingdom and larger amounts of rain or snow at various stations in the central countries, Italy, Bilbao, and the south of Russia.

Temperature fallen generally. Morning readings ranging from 55° at Athens and 53° at Malta to below 40° in nearly all other regions, to below 20° in the north-east of our area, and to 5° at Kuopio. Rising to about 60° later at Athens and Malta and to above 50° on the coast of Algeria and in the south of Spain; remaining below 40° in several British localities, and below 32° in the east of France. Severe frost continuing throughout the day in Russia and Sweden.

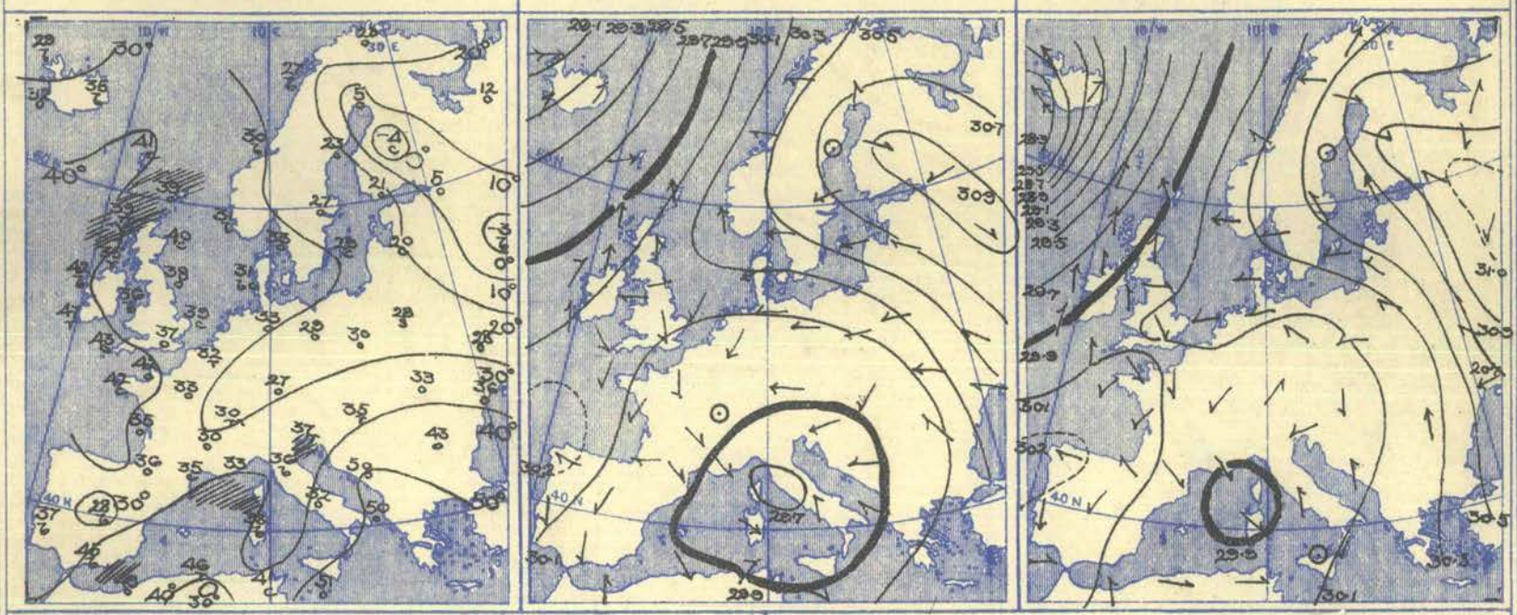
Wind in morning anticyclonic over all the northern countries and cyclonic in the south. Easterly to North-Easterly current blowing a gale on the Baltic and a strong breeze on the east and south-east coasts of England. A high wind from the North-Eastward prevailing at Trieste and Belfort, and from North-West at Malaga. A Southerly to South-Westerly gale prevalent in Iceland. Southerly current encroaching somewhat over our western districts during day, but little other change taking place except a decrease in force in many localities on the Continent.

Barometer in morning above 30·8 ins. in a very large anticyclone centred over Finland; below 29·6 ins. in a large depression over Italy, and below 29·4 ins. to the westward of Iceland. Pressure decreasing quickly in Iceland during day, but little modification occurring in the general distribution over our area as a whole. Anticyclone increasing somewhat about its centre, and Italian depression becoming rather less deep. Barometer falling slowly over the United Kingdom.

Thursday, 5th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fine and bright in the west of Norway and over a large portion of the Spanish Peninsula; very cloudy or overcast in almost all other districts, with rain or snow in places over a large area. About half an inch of rain later in Ireland, Wales, and the Hebrides, and smaller amounts in several parts of England and Scotland. Some rain and snow falling in various parts of the Continent, and more than an inch of rain at Algiers.

Temperature risen in Ireland and Scotland, fallen or changed little generally. Morning readings above 50° in Greece, but below 40° at several of the Mediterranean stations; below 32° over the greater part of the mainland of Europe, and below zero in several Russian and Finnish districts. Frost continuing all day in northern and in many parts of central Europe, as well as in the east of France, and thermometer remaining below 50° in Italy and the Riviera. Maxima below 40° at some of our own stations.

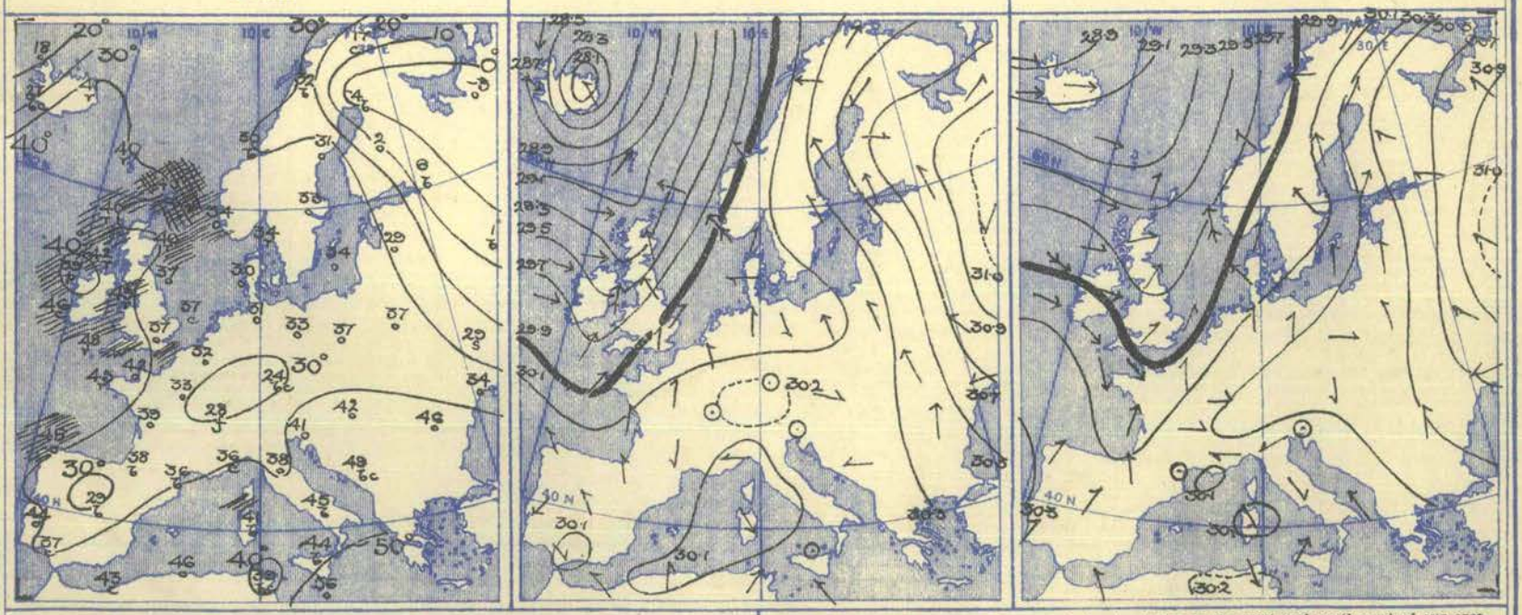
Wind in morning showing a cyclonic movement of light to moderate strength over the Mediterranean, and an anticyclonic circulation in northern and north-eastern Europe. Easterly current strong on the Baltic. A strong gale from West prevailing in the west of Iceland, and moderate to high Southerly winds on our extreme north-west coasts. Southerly current becoming more general over the west and north of these Islands during day, and increasing to a strong gale in Shetland. A strong gale from South-East setting in over Iceland. Force of Easterly wind decreasing on the Baltic.

Barometer in morning above 30·9 ins. in a high pressure system centred over Russia and relatively high in a band extending from Scandinavia across Great Britain. Below 29·7 ins. in a depression having its minimum over Italy, and below 29·1 ins. in another disturbance over the Iceland-Greenland region. Pressure giving way very rapidly during day in Iceland, falling more than an inch in the south-west. Fall extending to these Islands later. Barometer rising over Russia, and reaching 31·01 ins. at Moscow by 6 p.m.

Friday, 6th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rough and unsettled over these Islands and the north-western regions generally, with rain in several localities. Fair to fine over nearly the whole of the Mediterranean, and bright in several parts of Russia. Considerable or heavy falls of rain later in this country and the north of France, and smaller quantities in various other parts of our area.

Temperature risen in nearly all parts of these Islands and Scandinavia. Readings in morning below zero in the north of Russia and Sweden, and below 32° over a large area on the Continent. As high as 56° at Malta, and about 45° at some other stations on the shores of the Mediterranean. Maxima during day between 50° and 59° in the extreme south of our area, but below 40° in the north of Italy and in most parts of central Europe, and much below 32° in the north-east and east.

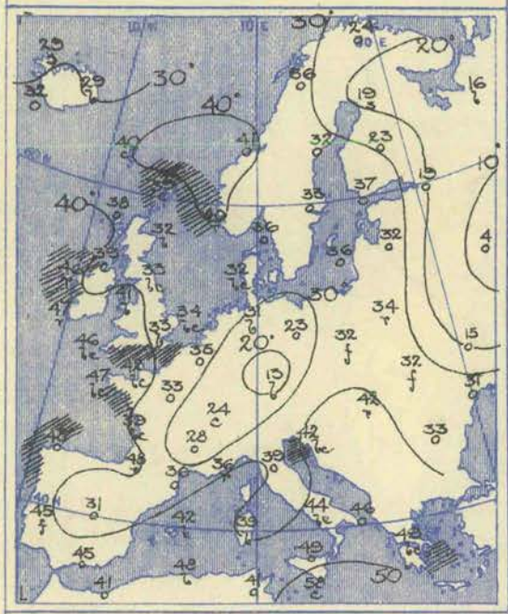
Wind in morning showing a vast cyclonic circulation in the west and north-west of our area. Strong in force in most regions, and blowing a gale on the Irish Sea, and also in Shetland and the south-west of Norway. A feeble cyclonic movement prevailing over the Mediterranean, and a moderate to strong Southerly current over Russia. Gale continuing at Skudeneas throughout day, but force of wind decreasing in most regions; veering to the North-Westward or Westward in England.

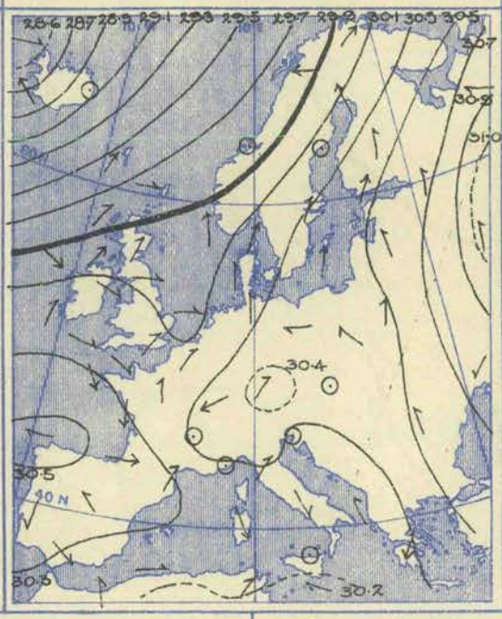
Barometer in morning below 28·1 ins. in a large and deep depression having its centre over eastern Iceland. Above 30·3 ins. over the Atlantic between the Azores and Portugal, and above 31·0 ins. in central Russia. Relatively low in a well-marked V-shaped disturbance passing Eastward over the United Kingdom, and also in a large, shallow depression over the Mediterranean. Main depression travelling away very quickly in a North-Easterly direction during day, and pressure rising rapidly in its rear. Russian anticyclonic system maintaining its position without loss of intensity.

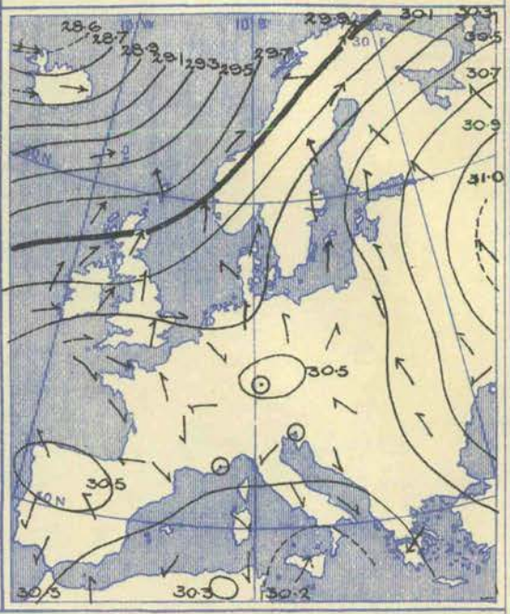
Saturday, 7th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to bright in many parts of these Islands and over the greater portion of southern Europe; cloudy or overcast in most other regions, with rain or snow in some localities in central and northern Europe. Showers falling at Valencia and Castlebay, and also at Nice and Biarritz. Continuing very fine in nearly all parts of England during day, but rain setting in at night. About 1·4 in. of rain falling at Tunis and slight amounts in a few other parts of our area.

Temperature risen in Scandinavia, fallen in most other regions. Morning readings ranging from 58° at Malta and 49° at Palermo and Athens to below 32° over most of the mainland of the Continent, to 13° at Munich, and to below 10° over a wide area in Russia. Maxima during day above 45° in many parts of these Islands, and above 50° in various parts of southern Europe and on the coast of Algeria. Frost continuing all day in some parts of central Europe.

Wind in morning South-Westerly to Southerly between Scotland and Iceland, mainly Westerly to North-Westerly over the United Kingdom, and Southerly beyond the North Sea. Fresh or strong in places, but generally moderate or light. Light, and rather variable breezes prevalent over the southern half of our area, and light Southerly breezes in Russia. Backing later over England, but veering over the Icelandic region; increasing to a gale from West at Isafjord. Little change taking place on the Continent.

Barometer in morning above 30·5 ins. in an anticyclone between Portugal and the Azores, and above 31·0 ins. in another over Russia. Below 28·6 ins. in a large depression centred to the northward of Iceland, and relatively low in a secondary over the North Sea. South-Western high pressure system spreading eastward later, and main depression travelling away in a north-easterly direction. Russian anticyclone undergoing little modification.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	Jan. 2nd, 9.55 a.m. to 10.25 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	**273°** 80% 290°, 7	**272·5°** 85% 300°, 12	**269·5°** 90% 315°, 17					**268°** 90% 330°, 19	750	Overcast. Clouds not reached. Strong gusty wind.
2	Jan. 3rd, 11.15 a.m. to 12.5 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	274·5° 90% 55°, 7	274° 90% 65°, 10	**271·5°** 100% 75°, 17	**268·5°** 85% 90°, 19				**267°** 85% 90°, 20	1,200	Clouds at 800 m. Snow at 9.0 a.m., clear by 2.0 p.m.
3	Jan. 4th, 10.26 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	277·5° 90% 20°, 6	277° 90% 20°, 9	274·5° 100% 30°, 12	**272·5°** 100% 40°, 15				**271°** 90 % 45°, 12	1,250	Overcast. Much ice on wire and kite.
4	Jan. 7th, 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	250°, 4	280°, 4	305°, 9					330°, 10	650	Two theodolites. Balloon lost in layer of cloud which was just forming. Some ci.

APPARATUS USED IN THE KITE AND BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites..	1	1	1	—
Area of Surface (sq. metres) ..	6	6	7	—
Capacity of Balloon (cub. metres)	—	—	—	104
Length of Wire (metres)	800	1,300	1,700	—

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

17

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 2. SECOND WEEK, SUNDAY, JANUARY 8TH, TO SATURDAY, JANUARY 14TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The general character of the week was unsettled, rain falling at times in most localities during the earlier days, and sleet or snow over a large portion of the Kingdom later. Precipitation became, however, much less general after the middle of the period. Aurora was seen in Scotland on the night of the 8th, and a thunderstorm occurred at Newcastle-on-Tyne late on the 12th.

Temperature was below the average in Ireland, England S.W. and the English Channel, but above it in all other districts. The divergence from the normal was nowhere very large. The highest of the maxima occured on the 8th at most stations, and varied between 50° in England E. and in Scotland N. and W., and 54° in Ireland S. The lowest of the minima, which were recorded towards the end of the week, ranged from 22° in Scotland W. and 23° in England E. and in Ireland to 29° in Scotland N., and to 33° in the English Channel. The lowest grass readings were 12° at Newton Rigg, 14° at Tunbridge Wells, 15° at Aspatria, and 17° at Buxton, Southport, Llangammarch Wells and Armagh.

Mean Temperature of the Sea was lower in most places than during the corresponding week of last year. The values ranged from between 47° and 49° on some parts of the south-west coast of England to less than 42° on the east and north-east coasts generally, and to 38·6 at Cromarty.

Rainfall was less than the average in Ireland and England S.W., and about equal to it in England N.W. and the Midland Counties. Elsewhere there was an excess, but the difference from the average was not, as a rule, large. On the 10th, 1·36 inch fell at Poltalloch, 1·17 inch at Fort William and 1·04 inch at Aspatria.

Bright Sunshine exceeded the average in all districts except Scotland N. The percentage of the possible duration ranged from 31 in England S.W. to 19 in England N.E., and to 10 in Scotland N.

Barometer and Wind. During the earlier half of the week the pressure distribution continued favourable for winds from between south-west and west, and the current from that direction was mostly light or moderate. By Wednesday, however, the arrival of a deep depression to Scotland caused strong winds or gales over England and Ireland generally. As this depression travelled away eastward, a secondary disturbance which had developed over England moved south-eastward and southward, and the wind consequently veered to the northward over the entire Kingdom. During Thursday strong gales were experienced in most parts of the Kingdom, but by the following day the Northerly current had decreased greatly in strength. At the end of the week the main flow of air was again from the Westward, but over the south of England and Ireland, where the pressure distribution was anticyclonic, light variable airs prevailed.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 20.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Moderate	Moderate	Moderate	Light	Moderate	Moderate
	Sunshine ...	Moderate	Abundant	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 6 weeks from Dec. 4th, 1910.	Warmth ...	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	2 * 0	3 * 0	3 * 1	3 * 1	1 * 2	3 * 0
	Rainfall ...	1 * 2	0 * 1	3 * 1	3 * 0	2 * 1	3 * 1	2 * 1	1 * 0	2 * 1	1 * 3	2 * 3	2 * 1
	Sunshine ...	2 * 0	4 * 1	2 * 2	1 * 2	2 * 1	2 * 1	4 * 2	4 * 1	2 * 1	2 * 1	1 * 2	0 * 0

PAST SEASONS.

WINTER, 1909-10. Dec. 5th-March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th-June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th-Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th-Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SECOND WEEK—January 8th to January 14th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	29	42·4	33·7	38·2	+ 0·2	1	− 5	30	− 6	6	+ 1	1·41	+0·27	4	− 1	10	− 2
Eastern																		
1. SCOTLAND, EAST	51	24	42·7	32·7	37·9	+ 1·1	2	− 3	34	− 9	4	+ 1	0·67	+0·13	10	+ 2	21	+ 5
2. ENGLAND, N.E.	51	27	43·3	33·6	38·6	+ 0·5	4	− 3	31	− 4	4	0	0·61	+0·15	10	+ 2	19	+ 4
3. ENGLAND, EAST	50	23	43·4	33·7	38·8	+ 1·5	4	− 3	32	− 9	5	+ 1	0·75	+0·36	14	+ 4	25	+ 7
4. MIDLAND COUNTIES	52	24	43·3	33·5	38·6	+ 1·2	4	− 5	32	− 9	4	0	0·44	−0·02	12	+ 3	22	+ 6
5. ENGLAND, S.E.	51	26	43·7	34·3	39·2	+ 0·1	5	− 6	30	− 2	4	+ 1	0·74	+0·24	15	+ 5	26	+ 8
Western																		
6. SCOTLAND, WEST	50	22	44·3	34·8	39·8	+ 0·6	6	− 2	29	0	5	+ 1	1·08	+0·10	10	+ 3	20	+ 5
7. ENGLAND, N.W.	53	24	44·2	35·9	40·2	+ 0·9	6	− 3	24	− 5	5	+ 1	0·62	0·00	11	+ 4	22	+ 7
8 ENGLAND, S.W.	51	26	44·3	36·0	40·3	− 0·7	6	−10	24	+ 1	4	+ 1	0·68	−0·10	17	+ 7	31	+12
9. IRELAND, NORTH	51	23	44·9	34·6	39·9	− 0·5	8	− 4	29	+ 4	4	0	0·46	−0·28	9	+ 1	18	+ 1
10. IRELAND, SOUTH	54	23	45·8	34·2	40·2	− 1·9	11	− 8	31	+ 12	4	0	0·59	−0·32	14	+ 3	25	+ 5
11. ENGLISH CHANNEL	52	33	46·9	39·5	43·4	− 0·8	20	− 4	7	− 2	4	0	0·82	+0·13	16	+ 2	27	+ 3

THE SEASON (Winter).—Aggregates, &c., for the Period of 6 Weeks, December 4th, 1910 to January 14th, 1911.

0. SCOTLAND, NORTH	54	20	*	*	*	*	70	+ 24	121	− 74	37	+ 6	7·19	−0·34	29	+ 2	11	+ 1
Eastern																		
1. SCOTLAND, EAST	57	16	*	*	*	*	71	+ 31	138	−105	29	+ 5	3·32	−0·46	57	+15	20	+ 5
2. ENGLAND, N.E.	56	20	*	*	*	*	85	+ 37	109	− 88	28	+ 6	3·04	+0·14	51	+ 2	17	+ 1
3. ENGLAND, EAST	57	23	*	*	*	*	109	+ 55	113	−113	31	+ 7	4·10	+1·52	54	− 4	17	− 1
4. MIDLAND COUNTIES.. ..	57	23	*	*	*	*	98	+ 38	113	−117	31	+ 8	4·05	+0·92	49§	− 1	15	0
5. ENGLAND, S.E.	55	23	*	*	*	*	130	+ 44	99	− 66	29	+ 6	4·94	+1·59	65	+ 5	20	+ 1
Western																		
6. SCOTLAND, WEST	53	22	*	*	*	*	83	+ 19	100	− 56	35	+ 7	7·12	+0·21	51	+10	17	+ 3
7. ENGLAND, N.W.	57	22	*	*	*	*	94	+ 26	80	− 78	31	+ 6	4·76	+0·45	56	+13	18	+ 4
8. ENGLAND, S.W.	55	19	*	*	*	*	126	+ 14	78	− 38	32	+ 6	7·40	+1·64	67	+ 5	21	+ 2
9. IRELAND, NORTH	54	21	*	*	*	*	110	+ 31	91	− 46	33	+ 4	4·07	−0·91	57	+ 6	19	+ 2
10. IRELAND, SOUTH	57	21	*	*	*	*	134	+ 4	84	20	34	+ 6	5·25	−0·83	61	− 3	19	− 1
11. ENGLISH CHANNEL	57	32	*	*	*	*	218	+ 39	15	− 22	34	+ 5	5·32	+0·33	78	− 1	23	0

THE YEAR.—Aggregates, &c., for the Period of 2 Weeks, January 1st to January 14th, 1911.

0. SCOTLAND, NORTH	50	20	*	*	*	*	2	− 10	66	− 7	10	0	2·23	0·00	12	+ 2	13	+ 2
Eastern																		
1. SCOTLAND, EAST	51	16	*	*	*	*	2	− 8	77	− 10	9	+ 2	1·01	−0·13	20	+ 5	21	+ 6
2. ENGLAND, N.E.	51	27	*	*	*	*	4	− 9	59	− 13	10	+ 2	1·25	+0·37	17	+ 2	17	+ 2
3. ENGLAND, EAST	50	23	*	*	*	*	4	− 11	65	− 18	11	+ 3	1·58	+0·74	22	+ 3	21	+ 3
4. MIDLAND COUNTIES.. ..	52	24	*	*	*	*	4	− 14	66	− 17	9	+ 1	0·85	−0·16	19§	+ 2	18	+ 2
5. ENGLAND, S.E.	51	26	*	*	*	*	5	− 18	59	− 5	10	+ 3	1·32	+0·28	25	+ 5	23	+ 5
Western																		
6. SCOTLAND, WEST	50	22	*	*	*	*	9	− 7	66	+ 6	8	− 1	1·94	−0·13	24	+ 10	24	+10
7. ENGLAND, N.W.	53	24	*	*	*	*	6	− 13	53	− 6	8	0	1·06	−0·24	25	+ 10	24	+10
8. ENGLAND, S.W.	51	22	*	*	*	*	10	− 22	55	+ 9	8	0	1·39	−0·30	32	+ 11	29	+10
9. IRELAND, NORTH	51	21	*	*	*	*	14	− 10	64	+ 14	8	− 1	1·12	−0·43	28	+ 11	27	+10
10. IRELAND, SOUTH	54	21	*	*	*	*	20	− 19	66	+ 28	9	0	1·16	−0·80	27	+ 6	25	+ 5
11. ENGLISH CHANNEL	52	33	*	*	*	*	38	− 12	15	− 3	11	+ 2	1·60	+0·11	27	0	24	0

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for Report No. 1 slightly altered owing to the receipt of further information.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*47*	*11th*	*29*	*11th*	*40·8*	*33·1*	*37·1*	—	*0*	*34*	*7*	*0·98*	—	*2·7*	—	*7*	—	*Baltasound.*
	a Sumburgh Head ..	49	8th	29	12th	44·9	33·7	39·5	+ 0·2	8	32	6	1·32	+ 0·35	3·1	- 2·9	7	- 7	Deerness.
	a Stornoway	47	10th, 14th	30	12th	42·7	34·6	38·8	- 0·4	2	27	7	1·37	+ 0·16	3·8	- 2·3	8	- 5	Stornoway.
	a *Castlebay, Barra Isd.*	*49*	*10th*	*31*	*12th*	*45·3*	*37·3*	*41·5*	+ *0·1*	*9*	*20*	*7*	*1·07*	—	*3·3*	—	*17*	—	*Castlebay.*
	a Wick	46	8th, 14th	30	12th, 13th	41·3	32·6	37·1	- 1·1	0	34	6	1·21	+ 0·61	*	*	*	*	* *
	p Strathpeffer.. ..	50	8th	29	13th	43·0	33·5	38·4	+ 1·5	3	32	5	0·63	- 0·10	9·4	+ 2·4	20	+ 5	Strathpeffer.
b, Mainland.	p Glencarron .. S	47	8th	29	11th, 12th	41·2	32·7	37·1	+ 0·4	0	34	7	2·08	- 0·24	*	*	*	*	* *
	p Fort Augustus S	47	8th	30	11, 12, 13th	41·7	34·8	38·4	+ 0·6	0	25	6	0·98	- 0·29	1·2	- 2·0	3	- 4	Fort Augustus.
	p Fort William S	48	8th	29	12th	42·0	33·9	38·1	- 1·4	0	27	7	2·28	+ 0·11	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	48	8th	31	12th	42·6	33·2	38·1	- 0·2	2	33	5	0·52	+ 0·01	*8·4*	—	*18*	—	*Gordon Castle.*
	a Nairn	50	8th	30	12th, 13th	43·6	32·7	38·4	+ 1·0	4	35	5	0·50	+ 0·07	7·0	—	15	—	Nairn.
	a Aberdeen	50	8th	31	8, 9, 12, 13, 14	42·6	32·6	37·8	+ 0·1	2	35	4	0·56	+ 0·01	9·5	- 1·0	20	- 2	Aberdeen.
	a Balmoral .. S	48	8th, 10th	28	9, 12, 13th	43·9	31·9	38·1	+ 3·8	5	38	3	1·10	+ 0·40	12·6	—	26	-	Crathes S.
	p Crieff .. .. S	50	8th	30	12th	41·8	32·8	37·5	+ 0·3	0	32	3	0·37	- 0·56	13·0	—	27	—	Balruddery
	a Leith	51	8th	32	13th, 14th	45·1	35·1	40·3	+ 1·1	9	28	5	0·38	+ 0·01	*	*	*	*	Edinburgh.
	p West Linton.. S	46	8th, 11th	24	13th	39·8	30·3	35·2	- 1·2	0	48	6	1·20	—	*5·7*	—	*11*	—	*West Linton.*
	p Marchmont .. S	48	8th	27	13th	42·4	32·6	37·7	+ 1·1	1	35	4	0·76	+ 0·23	8·8	- 0·6	18	- 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	50	8th, 11th	30	14th	44·4	33·4	39·1	+ 0·9	7	33	3	0·94	+ 0·40	11·6	—	23	—	Cockle Park.
	a Shields	51	8th, 11th	29	13th, 14th	44·0	32·3	38·4	- 0·5	6	37	2	0·85	+ 0·45	*8·4*	+ *2·9*	*17*	+ *6*	*Newcastle.*
	p Durham	51	11th	27	13th	43·3	33·7	38·7	+ 1·6	4	31	3	0·65	+ 0·27	15·7	+ 6·1	31	+12	Durham.
	p Rounton .. M	50	8th	27	13th	43·5	32·8	38·4	+ 1·2	4	35	2	0·37	- 0·03	*	*	*	*	* *
	p Scarborough.. M	49	9th, 12th	32	14th	45·0	35·7	40·5	+ 2·0	8	25	4	0·45	- 0·01	5·9	—	11	—	Scarborough.
	p York	50	8th, 9th	30	13th	44·6	33·7	39·4	+ 1·4	7	33	3	0·33	- 0·04	6·0	- 0·4	12	- 1	York.
b, South.	a Spurn Head ..	47	8th	32	14th	41·9	35·3	38·7	0·0	0	23	4	0·54	+ 0·23	*	*	*	*	* *
	a Lincoln	49	8th	29	13th, 14th	41·6	32·5	37·2	+ 0·1	0	34	7	0·70	+ 0·31	12·1	—	23	—	Skegness.
	a Fulbeck	49	8th	29	8th, 14th	41·1	33·1	37·3	+ 0·1	0	33	5	0·67	+ 0·28	8·6	—	16	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	48	8th	29	14th	43·7	32·9	38·5	+ 1·4	5	34	6	0·61	—	*16·4*	—	*30*	—	*Lowestoft.*
	p Hillington .. M	48	8th, 9th	26	14th	42·9	32·0	37·7	+ 0·6	3	37	5	1·15	+ 0·68	8·1	- 2·1	15	- 4	Cromer.
	a Yarmouth .. —	48	8th, 9th	31	14th	43·1	34·9	39·2	+ 1·4	3	27	5	0·84	+ 0·44	14·7	—	27	—	Hillington.
	a Norwich	48	8th, 9th	28	14th	42·8	34·6	38·9	+ 1·4	2	28	7	0·90	—	*	*	*	*	* *
	p Geldeston	48	8th, 9th	29	14th	44·8	33·2	39·2	+ 1·0	8	34	7	0·85	+ 0·48	14·7	+ 3·0	27	+ 6	Geldeston.
b, South.	p Cambridge	49	8th, 9th	25	14th	44·0	32·8	38·6	+ 0·9	6	35	5	0·68	+ 0·37	11·6	+ 0·9	22	+ 2	Cambridge.
	a *Felixstowe*	*49*	*9th*	*27*	*14th*	*42·9*	*34·1*	*38·7*	+ *0·2*	*3*	*30*	*5*	*0·46*	—	*18·6*	—	*34*	—	*Felixstowe.*
	a Clacton-on-Sea ..	47	9th	29	14th	42·3	34·3	38·5	+ 0·2	1	29	3	0·44	—	18·1	—	33	—	Clacton.
	a Rothamsted ..	49	9th	23	14th	42·9	33·1	38·2	+ 0·3	3	33	5	0·65	+ 0·18	13·8	+ 3·4	25	+ 6	Rothamsted.
	a *Shoeburyness* ..	*49*	*8th, 9th*	*28*	*14th*	*43·4*	*34·0*	*38·9*	+ *0·2*	*4*	*30*	*3*	*0·30*	+ *0·02*	*17·6*	—	*32*	—	*Southend.*
	p Tottenham	50	9th	29	14th	44·3	35·4	40·0	+ 1·2	6	26	5	0·67	—	12·6	—	23	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	48	8th, 11th	28	13th	43·1	33·4	38·4	+ 1·3	3	32	5	0·39	- 0·13	15·7	—	30	—	Harrogate.
	a Bawtry	50	8th	29	13th	42·3	33·6	38·1	+ 0·4	1	31	3	0·34	- 0·03	7·7	0·0	15	0	Worksop.
	p *Buxton* .. M	*42*	*8th*	*26*	*13th*	*41·8*	*32·3*	*37·2*	+ *1·7*	*0*	*34*	*5*	*0·73*	- *0·37*	*4·3*	—	*8*	—	*Buxton.*
	a Nottingham ..	50	8th	30	14th	42·4	34·0	38·4	+ 0·6	1	30	6	0·49	+ 0·07	5·5	—	10	—	Nottingham.
	p Birmingham, Edgbsn	49	8th	30	13th	42·7	34·0	38·5	+ 0·7	2	30	3	0·39	- 0·07	4·8	—	9	—	Birmingham.
	a Raunds .. M	49	8th, 9th	24	14th	42·3	31·7	37·2	0·0	1	38	5	0·52	—	*	*	*	*	* *
	a Oxford	49	8th, 9th	29	14th	43·6	34·7	39·3	+ 0·5	4	28	4	0·48	+ 0·08	15·4	+ 5·0	28	+ 9	Oxford.
b, West.	a Cheadle .. M	47	8th	28	14th	41·2	31·0	36·3	- 0·4	0	40	6	0·32	- 0·25	9·8	—	19	—	Sheffield.
	p Shrewsbury	52	8th	30	13th	47·1	35·4	41·5	+ 2·9	14	28	2	0·14	—	*	*	*	*	* *
	a Hereford .. M	51	8th	28	14th	43·2	34·1	38·8	+ 0·6	3	30	4	0·77	+ 0·27	*	*	*	*	* *
	a Cirencester	?52	9th	27	14th	44·8	31·9	38·6	+ 1·1	8	39	4	0·57	+ 0·04	18·1	+ 7·8	33	+14	Cirencester.
	a Bath	51	8th	28	14th	44·0	34·3	39·3	- 0·3	6	29	4	0·48	- 0·07	17·2	—	31	—	Bath.
															16·9	—	*30*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	51	9th	28	14th	44·5	34·8	39·8	+ 0·9	7	28	5	0·62	+ 0·24	12·7	+ 3·7	23	+ 7	Kew.
	a Marlborough ..	49	8th, 9th	26	14th	43·2	31·6	37·6	0·0	3	39	4	0·67	+ 0·10	13·2	+ 4·2	24	+ 8	Marlborough.
	a Margate	50	9th	33	8th	44·1	36·5	40·5	+ 1·1	6	22	4	0·76	+ 0·38	15·0	+ 4·6	27	+ 8	Margate.
	a Wisley, Surrey ..	50	9th	26	14th	43·8	34·6	39·4	+ 0·1	5	29	4	0·63	—	12·8	—	23	—	Wisley.
	a Swarraton .. M	49	9th	27	14th	42·0	33·0	37·7	0·0	0	30	4	0·84	+ 0·26	17·1	—	31	—	Worthing.
	a Tunbridge Wells M	48	9th	26	14th	41·4	32·8	37·3	- 0·4	0	33	4	0·84	+ 0·24	15·0	+ 4·8	27	+ 9	Tunbridge Wells.
	a Dungeness	48	9, 10, 11th	27	14th	44·9	33·3	39·3	- 0·3	8	34	5	0·93	+ 0·51	12·6	—	23	—	Littlestone.
	p Hastings	49	9th	29	14th	43·7	35·0	39·5	- 0·1	5	27	4	0·95	+ 0·41	*13·8*	- *0·4*	*23*	- *1*	*Hastings.*
	p Southampton ..	50	9th	29	14th	44·9	34·9	40·1	+ 0·2	8	28	4	0·59	0·00	12·9	+ 1·6	23	+ 3	Southampton.
	a Ventnor	49	8th, 9th	30	14th	44·2	36·7	40·6	- 1·5	6	21	5	0·61	+ 0·04	17·8	+ 5·4	31	+ 9	Ventnor.
															18·5	+ 6·2	33	+11	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*50*	*8th, 9th*	*29*	*14th*	*43·2*	*35·9*	*39·7*	+ *0·7*	*3*	*23*	*5*	*0·55*	+ *0·17*	*8·1*	+ *4·4*	*15*	+ *8*	*Westminster.*
	a *Greenwich*	*50*	*9th*	*27*	*14th*	*42·0*	*34·7*	*38·5*	- *0·7*	*0*	*25*	*5*	*0·70*	+ *0·33*	*3·3*	- *5·2*	*6*	- *10*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	48	11th	29	12th	44·4	36·3	40·5	+ 1·2	7	23	6	2·04	+ 0·94	*	*	*	*	* *
	p Glasgow	49	11th	29	13th	43·3	35·5	39·6	+ 1·0	4	25	6	0·83	+ 0·07	6·8	+ 2·3	14	+ 5	Glasgow.
	p Rothesay .. S	50	8th, 11th	29	13th	45·0	36·6	41·0	+ 1·3	8	22	6	1·46	+ 0·46	*	*	*	*	* *
	a Kilmarnock	48	11th	22	13th	45·9	31·6	39·0	- 0·9	11	41	5	0·89	—	*5·0*	—	*10*	—	*Kilmarnock.*
	a Colmonell .. S	49	11th	33	10th, 13th	44·1	36·4	40·4	+ 0·3	6	22	4	0·81	- 0·22	*	*	*	*	* *
	p Dumfries .. S	49	8th, 11th	24	13th	44·1	34·0	39·3	+ 0·9	6	31	5	0·93	+ 0·14	*11·4*	—	*22*	—	*Dumfries.*
b, ISLE OF MAN ..	p Cally, Gatehouse S	50	8th	22	13th	43·5	31·8	37·9	- 0·2	4	39	4	0·94	- 0·10	*	*	*	*	* *
	p Douglas	50	8th	31	13th	44·3	36·4	40·5	- 0·3	6	22	3	0·70	- 0·13	13·4	+ 2·9	26	+ 6	Douglas.
															14·8	—	28	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	47	8, 11, 14th	24	13th	42·8	33·4	38·3	+ 0·2	2	32	5	1·20	+ 0·54	10·4	—	20	—	Aspatria.
	p Newton Rigg ..	49	8th	25	13th	42·4	32·6	37·7	+ 0·8	1	35	5	0·46	- 0·30	9·2	+ 0·7	18	+ 1	Newton Rigg.
	p Stonyhurst	47	8th, 11th	27	13th	43·1	34·1	38·8	+ 0·6	3	30	6	0·88	- 0·08	7·7	+ 0·7	15	+ 1	Stonyhurst.
	p Blackpool .. M	47	8, 9, 11th	27	13th	43·7	36·2	40·1	+ 1·2	5	23	6	0·48	- 0·14	15·9	+ 8·1	30	+15	Blackpool.
	p M'nch'ster, Prestwich	49	9th	29	13th	43·8	35·0	39·6	+ 1·3	5	27	6	0·61	- 0·12	*8·2*	+ *3·8*	*16*	+ *7*	*Prestwich.*
	a Liverpool (Bidston)	51	8th	32	13th, 14th	44·1	36·3	40·4	+ 0·4	6	23	4	0·26	- 0·24	*18·0*	—	*34*	—	*Liverpool.*
	a Hawarden Bridge ..	53	8th, 11th	30	13th, 14th	45·9	36·0	41·2	+ 0·8	11	25	3	0·28	- 0·12	*15·2*	+ *6·8*	*29*	+*13*	*Southport.*
															14·9	—	*28*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	50	8th	34	12th	45·7	39·7	42·8	+ 1·3	15	6	4	0·45	- 0·13	10·1	+ 0·1	19	0	Llandudno.
	a Holyhead	50	8th	35	12th, 13th	45·7	38·6	42·3	+ 0·2	16	10	4	0·47	- 0·23	15·7	—	30	—	Aberdovey.
	p Bettws-y-Coed ..	49	8th, 9th	30	13th	45·1	36·6	41·0	0·0	9	22	6	1·15	—	7·1	—	13	—	Bettws-y-Coed.
															16·0	—	30	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	48	8th, 9th	26	14th	42·9	32·6	38·0	+ 0·7	3	35	4	0·76	—	7·9	—	15	—	Llangammarch Wells.
	a Pembroke	50	9th	33	12th	46·1	39·0	42·7	- 0·1	18	8	5	0·92	+ 0·13	15·1	+ 3·7	28	+ 7	Pembroke.
	a Cardiff	49	9th	31	14th	44·3	35·5	40·1	+ 0·5	6	26	4	0·47	- 0·39	*21·0*	—	*38*	—	*Cardiff.*
															15·0	+ *2·7*	*27*	+ *5*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	49	8th, 9th	30	14th	43·3	34·9	39·3	- 0·7	4	27	4	0·81	+ 0·15	*15·8*	—	*29*	—	*Clifton.*
	a Shaftesbury .. M	47	8th, 9th	28	14th	41·5	33·4	37·6	- 0·2	0	31	4	0·59	+ 0·01	*	*	*	*	* *
	a Arlington	48	8th, 9th	29	14th	43·3	34·6	39·1	- 0·4	4	28	4	1·54	+ 0·44	20·5	+ 9·0	36	+16	Newquay.
	a Cullompton .. M	51	9th	29	14th	44·9	33·5	39·4	- 0·4	8	33	4	0·60	- 0·14	16·9	+ 7·3	30	+13	Cullompton.
	a Portland Bill ..	50	9th	31	14th	44·6	38·6	41·7	- 0·4	7	14	3	0·22	—	*21·4*	—	*38*	—	*Weymouth.*
	p Plymouth	51	9th	32	10th, 14th	45·9	38·6	42·4	+ 0·1	17	10	2	0·27	- 0·53	20·6	+ 9·4	36	+17	Plymouth.
	p Falmouth	51	9th	33	14th	45·8	38·9	42·5	- 1·2	17	9	4	0·65	- 0·39	23·8	+11·2	42	+20	Falmouth.
															21·9	+ *9·2*	*38*	+*16*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	48	8, 10, 11th	31	12th	45·3	36·6	41·1	- 0·2	9	22	5	0·26	- 0·37	*	*	*	*	* *
	a Blacksod Point ..	50	10th	34	12, 13, 14th	46·9	37·9	42·6	- 0·2	21	11	5	0·84	- 0·31	*	*	*	*	* *
	p Markree Castle ..	50	8th	28	13th	44·0	32·9	38·7	- 0·9	6	35	4	0·56	- 0·32	7·8	- 0·9	15	- 2	Markree Castle.
	a Birr Castle	51	8th	23	13th	44·4	30·3	37·6	- 2·1	7	44	4	0·50	- 0·16	*10·0*	- *1·0*	*19*	- *2*	*Birr Castle.*
b, East.	p Armagh	50	8th	28	12th, 13th	43·6	34·0	39·0	- 0·6	4	31	2	0·22	- 0·36	10·9	+ 1·2	21	+ 2	Armagh.
	a Donaghadee	51	8th	34	10th	45·0	35·6	40·5	- 0·1	8	26	5	0·36	- 0·24	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	52	8th	29	13th	44·5	36·2	40·5	- 1·1	7	23	3	0·30	- 0·19	15·2	+ 2·6	29	+ 5	Phœnix Park.
	a Kilkenny	52	8th	25	10th, 13th	44·6	30·6	37·9	- 2·4	7	44	3	0·40	- 0·37	*	*	*	*	* *
	a Waterford	52	8th	27	13th	46·9	32·3	39·9	- 1·5	14	39	2	0·36	- 0·54	*	*	*	*	* *
b, West.	a Birr Castle	51	8th	23	13th	44·4	30·3	37·6	- 2·1	7	44	4	0·50	- 0·16	10·0	- 1·0	19	- 2	Birr Castle.
	a Foynes	51	8th	29	13th	46·1	36·7	41·6	- 0·6	11	23	5	0·59	- 0·27	*	*	*	*	* *
	a Cahir .. .. M	52	8th	26	10th	44·6	32·9	39·0	- 2·4	7	35	4	0·71	—	*	*	*	*	* *
	a Killarney	54	8th	28	13th	46·8	34·9	41·1	- 1·4	13	30	5	0·82	- 0·63	*	*	*	*	* *
	a Valencia	52	8th	31	10th	47·6	37·1	42·6	- 2·2	25	14	5	1·07	- 0·23	11·4	+ 0·6	21	+ 1	Valencia.
	a Roche's Point ..	52	8th	31	14th	46·6	36·4	41·7	- 1·9	13	24	5	0·52	- 0·55	17·3	—	31	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	50	8, 9, 10, 11	33	12th	48·1	39·4	43·9	- 2·2	24	7	5	0·61	- 0·13	15·6	+ 2·9	27	+ 5	Scilly.
	a Jersey, St. Aubins ..	52	9th	36	11th	46·7	39·3	43·2	+ 0·4	20	8	4	0·94	+ 0·21	16·9	+ 2·4	29	+ 4	St. Heliers.
	a Guernsey	50	8th, 9th	36	14th	45·8	39·9	43·0	- 0·7	16	6	4	0·91	+ 0·11	14·1	+ 3·2	24	+ 6	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground

	STATION.	Grass Min. No. of Obs. of 36° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	37·1	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·8
	Crathes	6	19	35·6	39·3
	Balmoral	5	25	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	5	24	35·6	—
2.	Cockle Park	7	24	35·8	39·4
	Durham	4	28	—	—
	York	—	—	38·8	42·4
	Hull	3	27	37·6	43·6
	Lincoln	—	—	36·6	41·7
	Rauceby	5	20	38·6	43·0
3.	Norwich	4	21	—	—
	Yarmouth	—	—	37·3	42·7
	Lowestoft	4	23	38·1	42·5
	Cambridge	5	20	38·4	42·8
	Clacton-on-Sea ..	5	23	40·3	44·8
	Southend	5	23	39·9	—
	Tottenham	3	22	—	44·0
4.	Harrogate	4	21	38·8	40·6
	Huddersfield ..	2	22	38·2	41·8
	Buxton	4	17	37·1	42·5
	Sheffield	2	25	38·3	42·2
	Nottingham.. ..	6	26	36·8	40·3
	Birmingham.. ..	4	26	39·7	44·4
	Oxford	3	22	—	—
	Hereford	6	23	—	—
	Cirencester	5	24	39·1	42·6
	Bath	—	—	39·9	43·7
5.	Margate	2	30	40·6	43·3
	Greenwich	4	22	—	—
	Westminster ..	4	24	—	—
	Kew	5	19	38·9	43·9
	Canterbury	5	21	40·3	44·4
	Tunbridge Wells ..	5	14	38·6	—
	Wisley	5	19	38·4	42·0
	Worthing	4	24	39·0	44·2
	Portsmouth	4	21	41·2	45·0
6.	Glasgow	2	21	—	—
	Rothesay	—	—	—	42·1
	Colmonell	0	31	—	—
6.	Dumfries	3	21	37·3	41·0
	Douglas	2	23	—	—
7.	Aspatria	2	15	38·5	43·0
	Newton Rigg ..	5	12	39·1	41·4
	Burnley	3	18	37·6	41·7
	Southport	3	17	37·6	41·0
	Manchester City ..	1	28	38·2	43·2
	Bettws-y-Coed ..	1	28	40·1	44·0
8.	Llangammarch Wells	6	17	40·3	44·8
	Cardiff	3	26	39·1	43·2
	Clifton	4	25	—	—
	Plymouth	3	24	42·2	—
9.	Armagh	4	17	40·4	43·9
	Markree	6	24	41·0	45·6
10.	Dublin, Trin. Coll. ..	3	19	40·4	44·0
11.	Guernsey, Brooklyn	3	29	43·8	47·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	43	43·0
	Kirkwall	41	39	39·6
	Wick	44	43	43·8
SCOTLAND, E.	Cromarty	40	36	38·6
	Pennan Bay	41	39	40·1
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	41	39	40·2
	Scarborough	44	38	41·3
ENGLAND, E.	Shipwash Lightship ..	44	40	41·5
	Margate‡	43	40	42·0
ENGLAND, S.E.	Eastbourne‡	44	41	42·7
SCOTLAND, W.	Lamlash	46	45	45·7
	Ballantrae	44	42	43·0
ENGLAND, N.W.	Port Erin	47	44	45·9
ENGLAND, S.W.	Newquay	47	46	46·7
	Scilly	49	45	47·7
	Plymouth‡	49	48	48·5
	Salcombe	48	45	46·4
IRELAND, N.W.	Sheephaven	45	45	45·0
	Teelin	47	41	44·4
IRELAND, S.W.	Cleggan	46	41	44·8
	Seafield	48	44	46·2
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

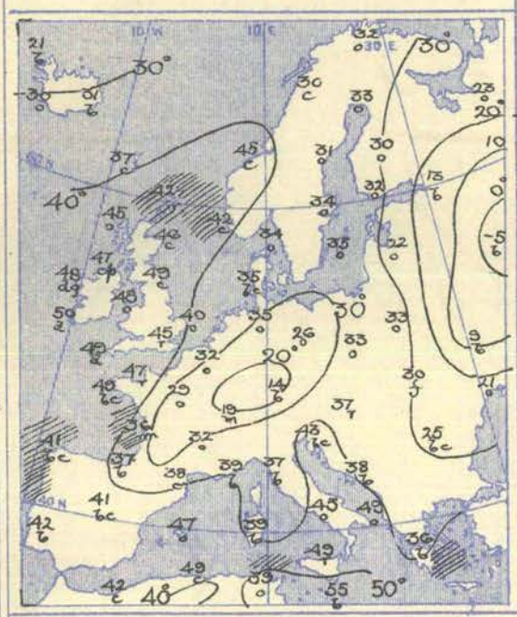
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

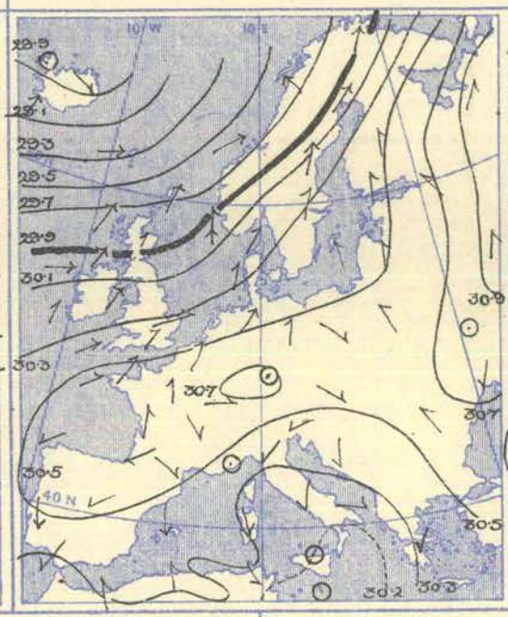
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

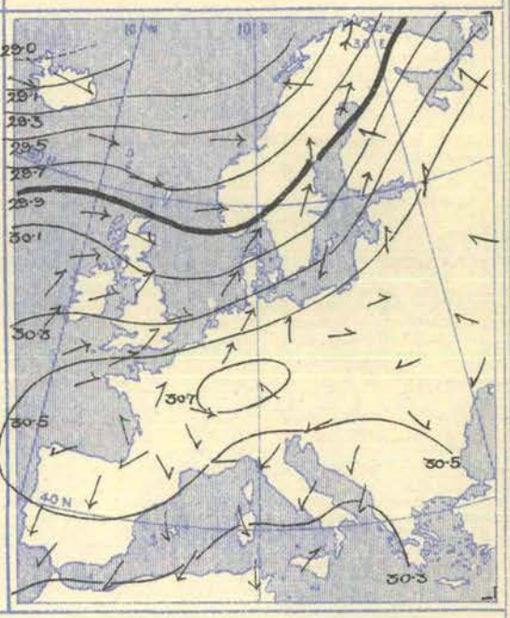
Sunday, 8th January, 1911

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning dull over nearly the whole of northern and north-western Europe, with rain in places over a wide area, and snow on the Baltic. Fair to fine and bright at most stations over the Mediterranean region. Slight rain later over the United Kingdom, and its immediate neighbourhood, and about an inch at Palermo. Considerable quantities of rain or snow in Scandinavia.

Temperature risen quickly over these Islands, and also in the extreme north of the Continent, fallen generally elsewhere. Morning readings ranging from −5° at Moscow, 9° at Keiff, 13° at St. Petersburg, and about 30 over a large portion of the Continent, to 48° or 49° in these Islands and at some places in the far south, and to 55° in Sicily. Readings below 20° in Bavaria and the east of France. Rising to about 50° during day over nearly the whole of this country and Brittany, and to a few degrees higher in some extreme southern localities. Remaining below 32° at various stations in central Europe, and only touching 34° at Turin.

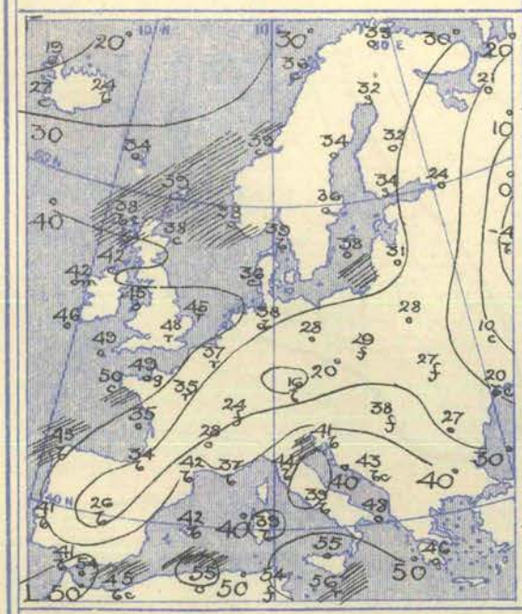
Wind in morning mainly South-Westerly over all the north-western regions, moderate or fresh generally, but strong in places. A gale from South prevailing at Skudesnaes. Light or moderate breezes from various points of the compass over the south of our area. Little change later, but veering somewhat over these Islands, and decreasing in force at Skudesnaes and in many other places.

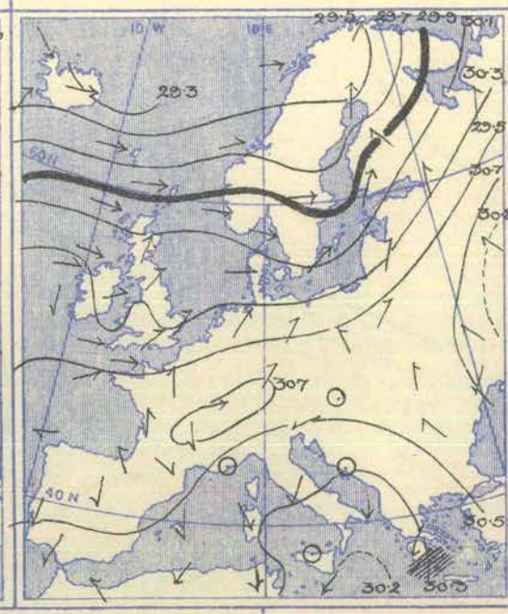
Barometer in morning above 30·7 ins. in an anticyclone centred over Bavaria, and nearly 31·0 ins. in another system over Russia. Below 28·9 ins. in a large depression to the northward of Iceland. Very little modification taking place during day in the general distribution of pressure, but a rather decided rise occurring in Iceland and the west and north-west of the United Kingdom. Russian high pressure system receding Southwards.

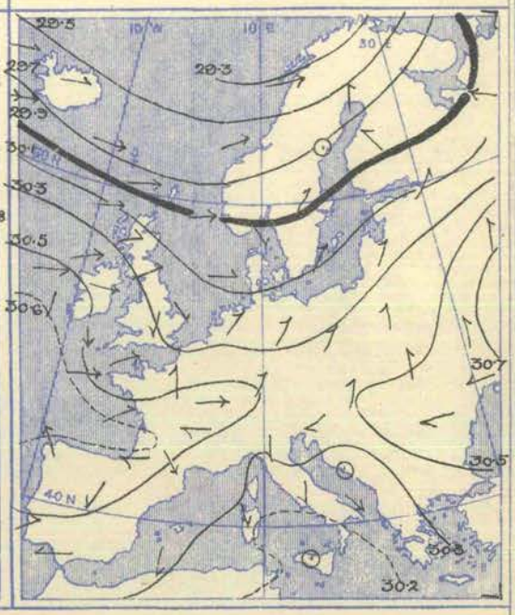
Monday, 9th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in several parts of these Islands and the nearer regions of the Continent, and very cloudy or overcast in the northern half of our area generally. Mostly fair to fine and bright further south, but overcast in places, and rain falling at Malta. Rain experienced later at most of our own stations, and over a wide area on the Continent, and also on the coast and in the interior of Algeria.

Temperature fallen over these Islands and Norway, risen in most other regions. Morning readings ranging from rather above 50° in the extreme south and 49° on the south-west coast of England to below 32° over the major portion of the Continent, and to 20° at Munich and in the south-east of Russia. Maxima during day about 50° at some of our own stations and on the west and south coasts of France, as well as over the southern half of Italy; below 32° in various parts of southern Europe, the east of France, and at Turin.

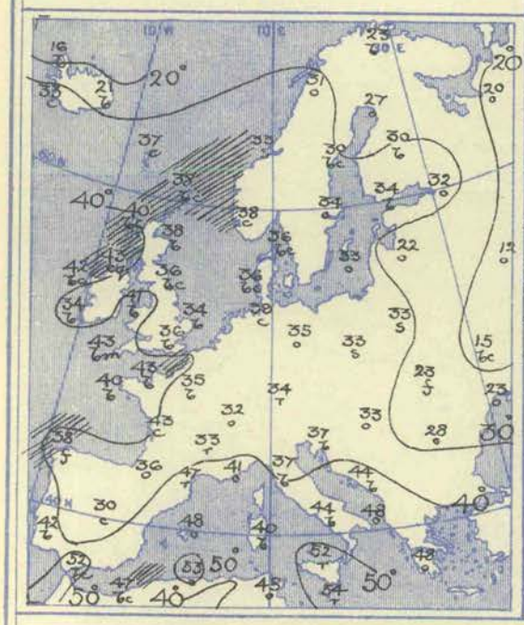
Wind in morning Westerly to South-Westerly or Southerly over the northern half of our area; light to moderate generally, but strong to a gale over the Baltic and Gulf of Bothnia. A Northerly to North-Easterly breeze prevailing over the southern countries and Mediterranean. Veering to the Northward later over the greater part of England, and increasing to a high wind from West in Shetland and on the west coast of Norway. Gales subsiding over the Baltic region.

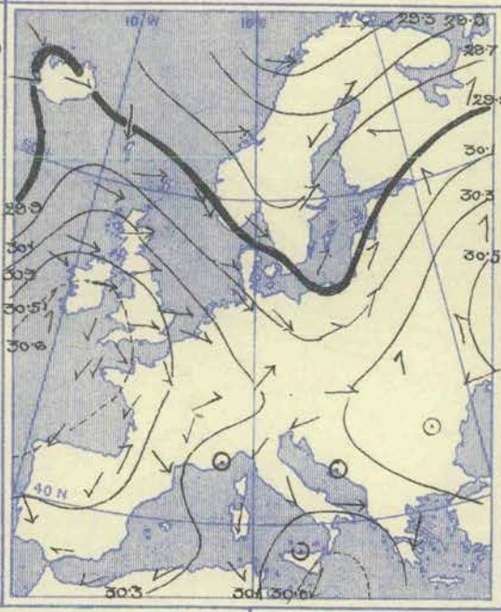
Barometer in morning above 30·8 ins. over central Russia, and above 30·6 ins. in a belt of high pressure extending from the north-west of Spain to Poland; below 29·3 ins. in a large depression travelling Eastward in the far north of our area, and relatively low in a small secondary over South Wales. Latter moving Eastward over England during day, but little change occurring in the distribution over our area as a whole.

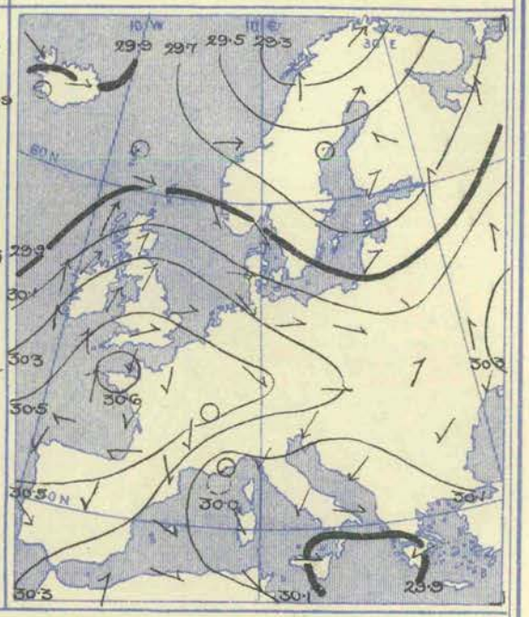
Tuesday, 10th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to very fine over these Islands generally, but rainy at Castlebay, and sleet falling at Wick. Rain or snow prevailing over a wide area in central Europe, and rain at some stations in the south of France, as well as at Malta and Palermo. Rain experienced within twenty-four hours in nearly all parts of this country, in Norway, and in various other parts of the Continent.

Temperature fallen over central Europe, risen generally elsewhere. Morning readings above 50° at a few places in the extreme south; below 32° over the greater portion of eastern and northern Europe, and also at Madrid and Turin. Continuing below 45° throughout in England, the east of France, and in most parts of Germany and Austria-Hungary, and only touching 48° at Nice. Maximum 61° at Athens and 59° at Tunis.

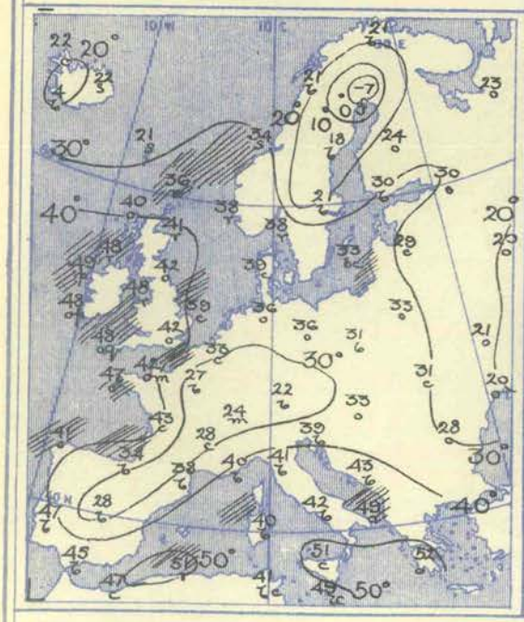
Wind in morning mainly North-Westerly over these Islands and the North Sea region, light or moderate generally, but blowing a gale in the south-west of Norway; light from South-West and South over the north-east of our area. Light to fresh or strong breezes from the Northward general over southern Europe and the Mediterranean. Backing suddenly to the Southward and increasing considerably in force in the west and north of these Islands during day, and the change extending to the east of England later.

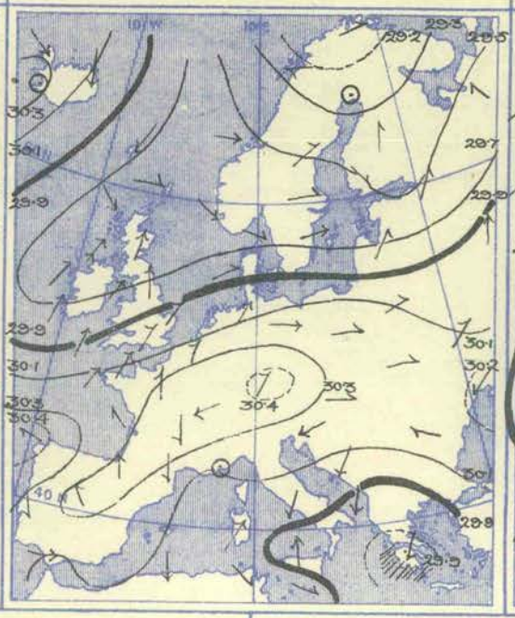
Barometer in morning ranging from above 30·6 ins. in an anticyclone over the Bay of Biscay and the south-west of the United Kingdom, and also in the south of Russia. Below 29·3 ins. in the far north of our area. Pressure decreasing quickly in the west of these Islands later in day, and high pressure system moving Eastward over France. A considerable increase of gradient taking place on our western coasts and also in the south of France and north of Italy.

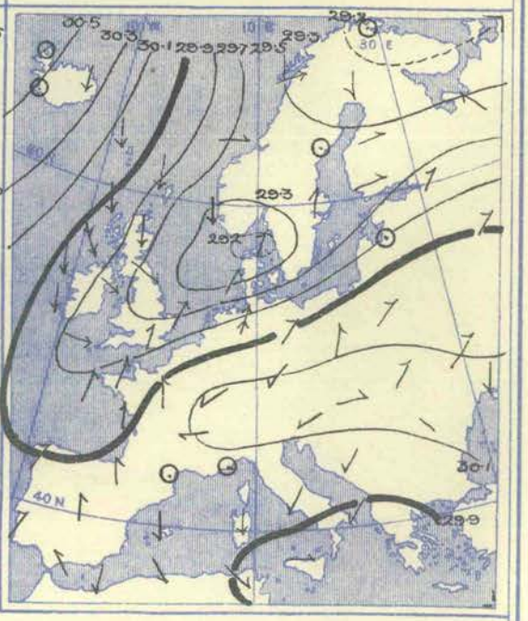
Wednesday, 11th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in the greater portion of the United Kingdom and at some places beyond the North Sea, and much cloud prevailing in Russia; generally fair to fine elsewhere. Considerable or heavy rain later over these Islands and in the west and north of France, rain or snow in Scandinavia and Denmark, and some heavy rain in Algeria. Much snow falling at Bucharest.

Temperature risen decidedly over these Islands, fallen in most other regions. Morning readings ranging from about 50° at a few stations in the extreme south of our area, and on the west coast of Ireland to below 32° over the major portion of the mainland of the Continent to below 20° in the south of Russia and over Sweden, and to −7° at Haparanda. Maxima during day 45° or rather higher in most parts of this country and on the coasts of France and about 60° at a station here and there on the shores of the Mediterranean. Frost at night on the Riviera and in Italy.

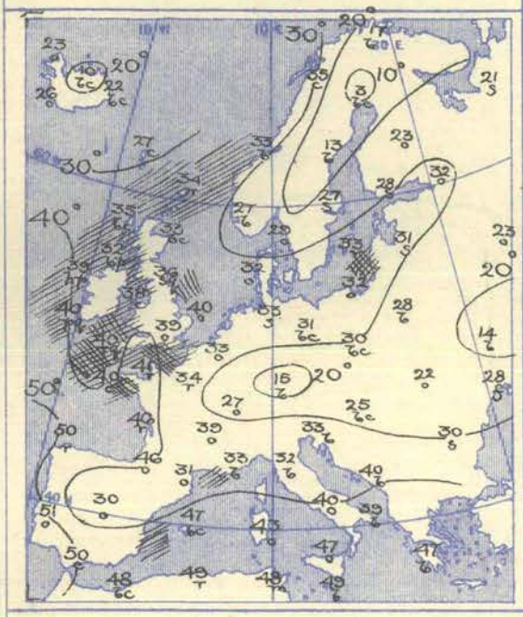
Wind in morning cyclonic over these Islands and their neighbourhood, the South-Westerly current blowing with the force of a gale on some parts of our west and south-west coasts. A fresh to high North-Easterly wind prevailing on the Adriatic. Veering later to the Northward over these Islands and increasing to a strong or whole gale on many parts of the coast. A South-Westerly gale setting in over the Baltic.

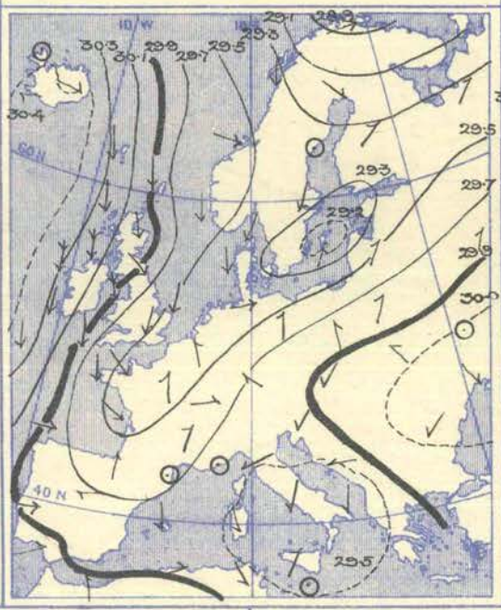
Barometer in morning above 30·3 ins. in an anticyclone having its maximum over France and central Europe; below 29·4 ins. in a depression over Scotland, and below 29·2 ins. in the extreme north of Scandinavia. Scottish depression moving South-Eastwards later and increasing in depth, and a separate disturbance developing over the south-west of these Islands. Pressure increasing very briskly in the north and north-west, and gradient growing much steeper.

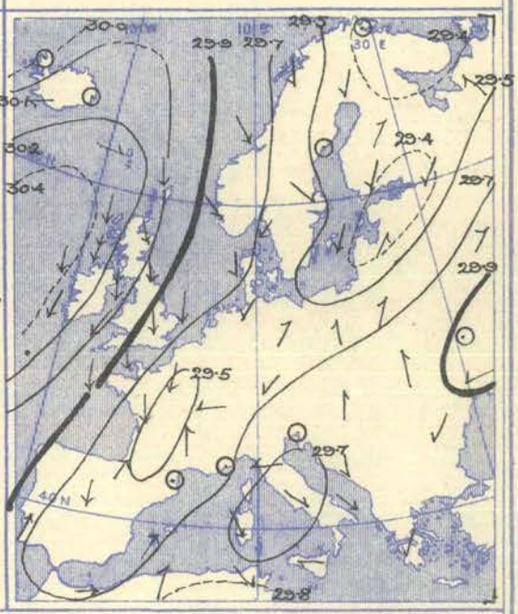
Thursday, 12th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning changeable, with rain or snow showers in most parts of these Islands and the neighbourhood, and also over the Baltic. Fair to fine over a large area in the south, but rainy at Algiers and Corunna. Squalls of sleet and snow later in this country, and rain or snow in most parts of western and central Europe. Considerable falls of rain experienced in Algeria.

Temperature fallen in most regions. Morning readings ranging from nearly 50° at a few places in the extreme south to below 32° over the major portion of Europe, and to below 20° in Bavaria and in some Swedish localities. Maxima during day below 40° in many parts of these Islands, below 35° over a very large area in central Europe, and below 30° in several districts. Thermometer touching 60° at one or two stations in the far south of our area. Sharp frost at night in central Ireland.

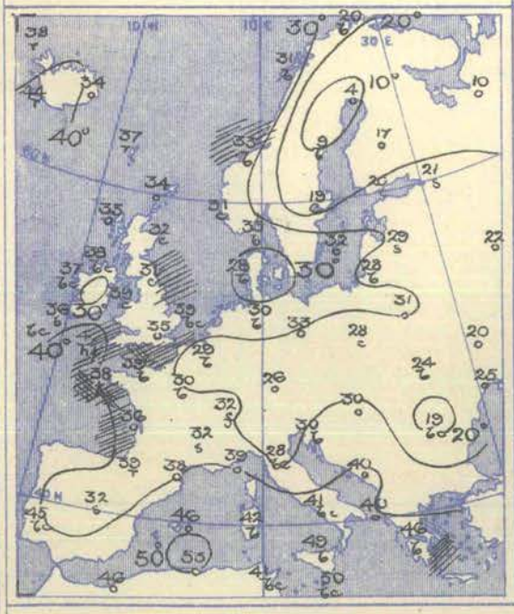
Wind in morning fresh to a gale from the Northward over these Islands and the Bay of Biscay, and fresh or strong from various quarters over Scandinavia and the Baltic. A feeble cyclonic circulation prevailing over Italy and its immediate vicinity. Gale continuing throughout the day in this country and over the Channel and north of France, but subsiding in most places during night.

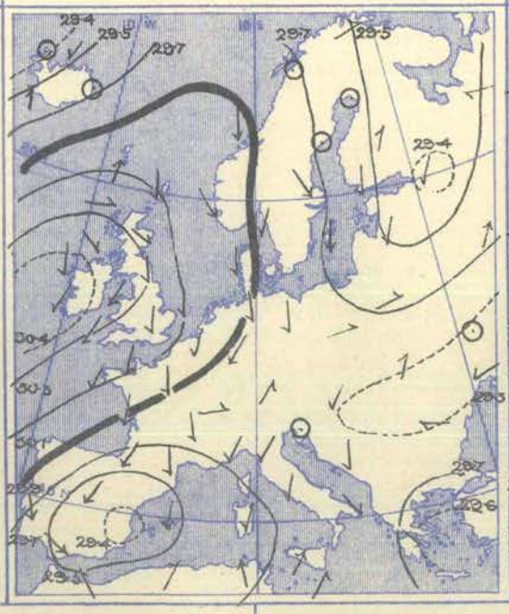
Barometer in morning above 30·4 ins. in a large area on the Atlantic to the westward of these Islands; below 28·9 ins. in the extreme north of Scandinavia, and relatively low in a disturbance over the Baltic and in another having its centre over Normandy. Gradient steep over the United Kingdom and the neighbouring seas and Channels, and rather steep over Germany. Pressure increasing later over these Islands, and depression moving southward over France. Baltic disturbance moving Eastward and becoming less deep, and a shallow system over Italy undergoing little change.

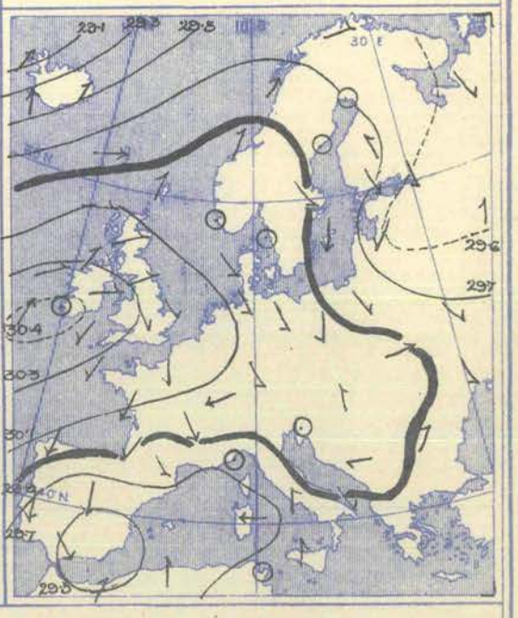
Friday, 13th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair or fine to cloudy or overcast in these Islands and the nearer regions of the Continent, and fine and bright over Italy; generally overcast over the Spanish Peninsula and the south of France, with rain or snow in places. Snow falling over the Gulf of Finland and at Riga. Heavy rain later in the south of France—more than 2·0 ins. at Croisette—and considerable amounts in Spain. Slight precipitation occurring in various other regions.

Temperature fallen generally. Morning readings ranging from 4° at Haparanda, below 20° over a large area in Russia, and about 20° in central Europe to a little above 40° in the southern parts of Italy and Spain, and to 53° at Algiers. Remaining below 40° throughout the day in many parts of these Islands and France, and failing to touch 32° in many German and Austrian localities, as well as at Turin. Rising to 63° at Tunis, 60° at Palermo, and 51° at Naples.

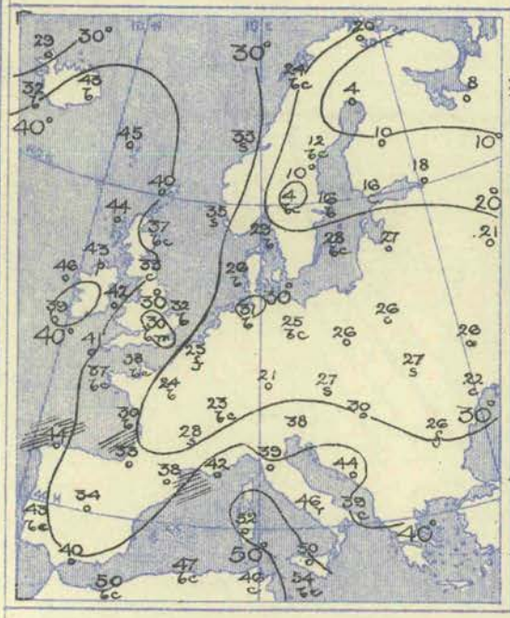
Wind in morning anticyclonic over these Islands and their vicinity, cyclonic over the major portion of the Continent. Northerly current blowing a gale at Spurn Head, and Northerly to North-Easterly current fresh to strong over the English Channel and the Bay of Biscay region. Increasing in force from South and South-West in Iceland later, and backing to the Westward over the northern half of these Islands. Little change elsewhere as a whole, but a high wind from the Northward setting in at Corunna.

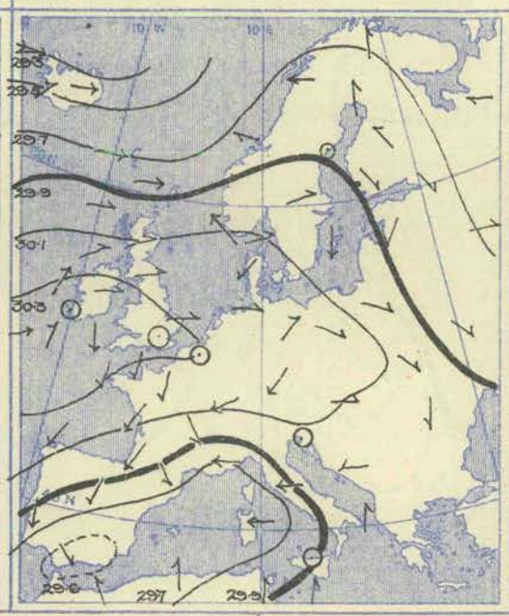
Barometer in morning above 30·4 ins. in an elongated high pressure system extending from the Azores to the north of Ireland; below 29·4 ins. in a depression having its centre near Alicante, and in another disturbance with its minimum near St. Petersburg. Below 29·4 ins. in the west of Iceland. Anticyclonic system extending further eastward during day, but a depression moving eastward over Iceland causing a fall of the barometer over the north of the United Kingdom.

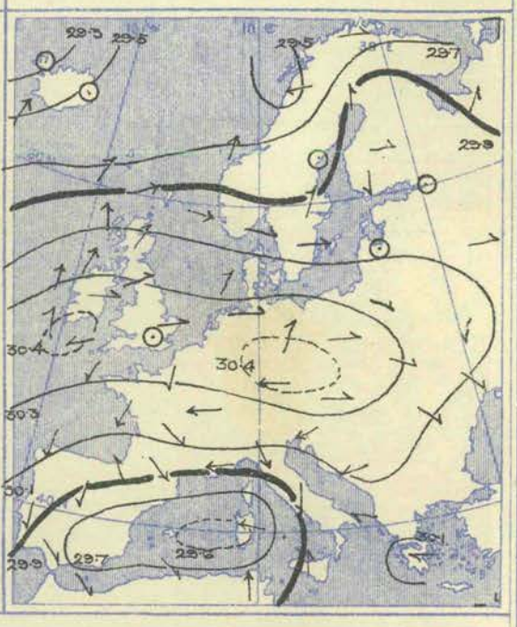
Saturday, 14th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning very cloudy or overcast in the major portion of our area, with rain on some parts of our extreme western and north-western coasts, snow in the south of France and northern Italy, as well as at a few stations in central and northern Europe, and rain at Barcelona and Naples. Much mist prevailing in England. Heavy rain later at Christiansund, about 0·5 in. at Barcelona, and a similar measurement of rain and snow at Perpignan.

Temperature risen in Scotland, fallen in most other regions. Morning readings ranging from 10° or lower in the extreme north-east, and about 20° at several stations in central Europe to between 45° and 50° over a large portion of the Mediterranean, and to 54° at Malta. Maxima during day below 40° in many English localities, and below 32° over a large area in central and northern Europe. Thermometer rising to about 60° at some Algerian stations and to 64° at Palermo. Frost at night sharp in some parts of England, and severe in Bavaria and western Germany; minimum at Munich 6°.

Wind in morning mainly Westerly over the northern regions, and Easterly or North-Easterly to variable elsewhere. A gale at Isafjord and a strong breeze at Thorshavn. North-Easterly current high at Corunna, and fresh at Rochefort. Not much change during day over our area as a whole, but some increase in the force of the Easterly wind occurring on the south coast of France and at Barcelona.

Barometer in morning 30·2 ins. and above in an anticyclone extending from the Azores to central Europe; below 29·6 ins. in a large depression having its minimum on the most western portion of the Mediterranean, and below 29·4 ins. in another to the northward of Iceland. Little modification occurring in the general distribution later; anticyclonic system increasing somewhat in intensity and extending Northward. Both depressions moving Eastward.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	Jan. 10th, 10.34 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	230°, 2		315°, 12	355°, 11	5°, 12	345°, 14		340°, 17	2,250	Two theodolites to 900 m. Some ci. No low clouds.
2	Jan. 13th, 10.18 a.m. to 11.22 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	274° 90% 360°, 7	273·5° 90% 360°, 12	271·5° 100% 10°, 16	269·5° 90% 20°, 18				268° 80% 20°, 17	1,350	Clouds at 400 m. Ice on the wire but little on the kite.
3	Jan. 18th, 2.54 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	340°, 4		351°, 8	7°, 12				357°, 13	1,300	Two theodolites to 1,000 m. Some alto.-cu. cloud.

APPARATUS USED IN THE KITE AND BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	—	1	—
Area of Surface (sq. metres) ..	—	6	—
Capacity of Balloon (cub. metres)	·047	—	·016
Length of Wire (metres)	—	2,000	—

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

25

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 3. THIRD WEEK, SUNDAY, JANUARY 15TH, TO SATURDAY, JANUARY 21ST, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—Over the Kingdom generally the greater part of the week was dry. There was, however, a considerable amount of cloud in most parts of England, and rather frequent mist or fog.

Temperature was above the average in Scotland and in Ireland N., the excess amounting to nearly 5° in Scotland N. In other districts it was below, the greatest difference being nearly 3° in England S.E. and S.W., and the English Channel. The highest of the maxima were recorded early in the week, and ranged from 53° in Ireland S. and the English Channel to 46° in England S.E. During the latter half of the period maxima below 40° were common in England. The lowest of the minima, which were registered on irregular dates, varied from 21° in England N.E. and S.E. to 28° in Scotland W., and to 33° in Scotland N. and the English Channel. The lowest grass readings were 13° at Tunbridge Wells, 15° at Llangammarch Wells and Crathes, and 16° at Kew and Durham.

Mean Temperature of the Sea. On many parts of the coast the temperature of the water differed little from that of the corresponding week of last year; at Margate and Eastbourne, however, it was more than 3° lower, while at Kirkwall and Cleggan it was about 2½° higher. The mean values ranged from about 48° at Plymouth and Scilly to about 39° at Margate, Burnmouth and Cromarty.

Rainfall was less than the average in all districts, the fall being very slight in England and the east of Scotland. At several stations the week was rainless, but in a few localities in Scotland N. a measureable quantity fell every day.

Bright Sunshine was slightly more than the normal in the Midland Counties, and in Ireland N., and considerably more in Scotland E. and England N.E., while in England N.W. it was just equal to it. Elsewhere there was a deficit. The percentage of possible duration ranged from 37 in Scotland E. and 30 in England N.E., to 11 in England S.E., 9 in Scotland W., and 7 in Scotland N.

Barometer and Wind. The northern districts of these islands were occasionally under the influence of cyclonic systems travelling eastward or north-eastward across the Icelandic region, and late on Saturday a "V shaped" disturbance advanced over our own western districts. Generally, however, the distribution was anticyclonic, with pressure highest over the south of the United Kingdom and the nearer countries of the Continent. The wind was consequently very light and rather variable except on the northern and north-western coasts, where it sometimes increased to a fresh or very strong breeze from the Southward or South-Westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 20.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient
	Rainfall ...	Light	Very light	Very light	Light	Very light	Light	Very light	Very light	Very light	Light	Light	Very light
	Sunshine ...	Moderate	Very abundant	Abundant	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 7 weeks from Dec. 4th, 1910.	Warmth ...	4 * 0	4 * 0	3 * 1	3 * 0	3 * 0	3 * 0	2 * 0	3 * 0	3 * 1	3 * 1	1 * 3	3 * 1
	Rainfall ...	1 * 3	0 * 2	3 * 2	3 * 1	2 * 2	3 * 2	2 * 2	1 * 1	2 * 2	1 * 4	2 * 4	2 * 2
	Sunshine ...	2 * 0	5 * 1	3 * 2	1 * 2	2 * 1	2 * 2	4 * 3	4 * 1	2 * 1	2 * 1	1 * 2	0 * 1

PAST SEASONS.

WINTER, 1909-10. Dec. 5th-March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th-June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th-Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th-Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

9225/450 Wy. & S., Ltd. 1—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRD WEEK—January 15th to January 21st, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	33	47·4	39·8	43·8	+ 4·9	22	+15	6	- 26	5	0	0·57	-0·88	4	- 2	7	- 4
Eastern																		
1. SCOTLAND, EAST	52	27	46·8	36·2	41·7	+ 3·6	13	+ 5	25	- 12	1	- 3	0·03	-0·55	19	+ 9	37	+17
2. ENGLAND, N.E.	50	21	43·9	32·2	38·3	- 0·6	5	- 3	37	+ 5	1	- 2	0·01	-0·39	16	+ 7	30	+12
3. ENGLAND, EAST	48	24	40·8	31·5	36·3	- 1·8	0	- 8	40	+ 3	2	- 1	0·03	-0·33	10	- 2	17	- 3
4. MIDLAND COUNTIES	48	22	41·9	31·4	36·9	- 1·4	0	-10	36		1	- 2	0·01	-0·43	10	+ 1	18	+ 1
5. ENGLAND, S.E.	46	21	41·0	32·7	37·0	- 2·8	0	-11	35	+ 7	2	- 2	0·03	-0·46	6	- 5	11	- 8
Western																		
6. SCOTLAND, WEST	50	28	46·2	38·7	42·6	+ 2·3	18	+ 7	9	- 15	3	- 1	0·11	-0·95	5	- 4	9	- 7
7. ENGLAND, N.W.	49	27	43·6	35·5	39·7	- 0·3	4	- 5	25	- 1	2	- 2	0·04	-0·64	9	0	16	0
8 ENGLAND, S.W.	49	22	42·6	34·5	38·7	- 2·9	2	-15	28	+ 8	2	- 2	0·05	-0·73	9	- 3	15	- 5
9. IRELAND, NORTH	50	24	46·5	37·1	42·0	+ 1·0	13	- 1	14	- 8	2	- 3	0·24	-0·52	11	+ 1	20	+ 2
10. IRELAND, SOUTH	53	24	46·7	36·2	41·7	- 1·1	13	- 8	25	+ 9	3	- 1	0·44	-0·41	10	- 1	19	- 2
11. ENGLISH CHANNEL	53	33	45·6	37·5	41·7	- 2·7	10	-15	19	+ 12	1	- 4	0·03	-0·5	10	- 4	18	- 7

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 7 Weeks, December 4th, 1910 to January 21st, 1911.

0. SCOTLAND, NORTH	54	20	*	*	*	*	92	+ 39	127	-100	42	+ 6	7·76	-1·22	33	0	10	0
Eastern																		
1. SCOTLAND, EAST	57	16	*	*	*	*	84	+ 36	163	-117	30	+ 2	3·35	-1·01	76	+24	23	+ 7
2. ENGLAND, N.E.	56	20	*	*	*	*	90	+ 34	146	- 83	29	+ 4	3·05	-0·25	67	+ 9	19	+ 2
3. ENGLAND, EAST	57	23	*	*	*	*	109	+ 47	153	-110	33	+ 6	4·13	+1·19	64	- 5	17	- 1
4. MIDLAND COUNTIES	57	22	*	*	*	*	98	+ 28	149	-117	32	+ 6	4·06	+0·49	59	0	16	0
5. ENGLAND, S.E.	55	21	*	*	*	*	130	+ 33	134	- 59	31	+ 4	4·97	+1·13	71	0	18	0
Western																		
6. SCOTLAND, WEST	53	22	*	*	*	*	101	+ 26	109	- 71	38	+ 6	7·23	-0·74	56	+ 7	16	+ 2
7. ENGLAND, N.W.	57	22	*	*	*	*	98	+ 21	105	- 79	33	+ 4	4·80	-0·19	65	+14	18	+ 4
8. ENGLAND, S.W.	55	19	*	*	*	*	128	- 1	106	- 30	34	+ 4	7·45	+0·91	76	+ 3	20	+ 1
9. IRELAND, NORTH	54	21	*	*	*	*	123	+ 30	105	- 54	35	+ 1	4·51	-1·43	68	+ 7	19	+ 2
10. IRELAND, SOUTH	57	21	*	*	*	*	147	- 4	109	- 11	37	+ 5	5·69	-1·24	71	- 4	19	- 1
11. ENGLISH CHANNEL	57	32	*	*	*	*	228	+ 24	34	- 10	35	+ 1	5·35	-0·26	88	- 5	22	- 1

THE YEAR.—Aggregates, &c., for the Period of 3 Weeks, January 1st to January 21st, 1911.

0. SCOTLAND, NORTH	52	20	*	*	*	*	24	+ 5	72	- 33	15	0	2·80	-0·88	16	0	11	0
Eastern																		
1. SCOTLAND, EAST	52	16	*	*	*	*	15	- 3	102	- 22	10	- 1	1·04	-0·68	39	+ 14	27	+10
2. ENGLAND, N.E.	51	21	*	*	*	*	9	- 12	96	- 8	11	0	1·26	-0·02	33	+ 8	21	+ 5
3. ENGLAND, EAST	50	23	*	*	*	*	4	- 19	105	- 15	13	+ 2	1·61	+0·41	32	+ 2	20	+ 1
4. MIDLAND COUNTIES	52	22	*	*	*	*	4	- 24	102	- 17	10	- 1	0·86	-0·59	29	+ 2	18	+ 1
5. ENGLAND, S.E.	51	21	*	*	*	*	5	- 29	94	+ 2	12	+ 1	1·35	-0·18	31	0	18	0
Western																		
6. SCOTLAND, WEST	50	22	*	*	*	*	27	0	75	- 9	11	- 2	2·05	-1·08	29	+ 6	19	+ 4
7. ENGLAND, N.W.	53	24	*	*	*	*	10	- 18	78	- 7	10	- 2	1·10	-0·85	34	+ 11	21	+ 7
8. ENGLAND, S.W.	51	22	*	*	*	*	12	- 37	83	+ 17	10	- 2	1·44	-1·03	41	+ 9	24	+ 5
9. IRELAND, NORTH	51	21	*	*	*	*	27	- 11	78	+ 6	10	- 4	1·36	-0·95	39	+ 12	25	+ 8
10. IRELAND, SOUTH	54	21	*	*	*	*	33	- 27	91	+ 37	12	- 1	1·60	-1·21	37	+ 5	23	+ 3
11. ENGLISH CHANNEL	53	33	*	*	*	*	48	- 27	34	+ 9	12	- 2	1·63	-0·48	37	- 4	21	- 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*49*	*17th*	*32*	*16th*	*46·6*	*39·8*	*43·3*	—	*18*	*6*	*7*	*0·81*	—	*0·5*	*1*	—		*Baltasound.*
	a Sumburgh Head ..	50	17th, 18th	33	16th	47·9	39·3	43·8	+ 4·7	24	8	6	0·42	− 0·50	4·7	− 1·6	10	− 3	Deerness.
	a Stornoway	51	16th, 17th	34	17th	48·7	42·1	45·5	+ 6·4	25	0	5	0·57	− 0·56	2·4	− 4·1	5	− 9	Stornoway.
	a *Castlebay, Barra Isd.*	*50*	*16, 17, 18th*	*40*	*16th*	*49·0*	*44·1*	*46·7*	+ *5·6*	*33*	*0*	*4*	*0·07*	—	*2·3*	—	*5*	—	*Castlebay.*
	a Wick	52	17th	33	16th	48·4	37·3	43·1	+ 4·9	27	13	2	0·10	− 0·48	*	*	*	*	*
	p Strathpeffer.. ..	52	17th	33	21st	48·3	39·2	43·9	+ 7·1	25	8	2	0·07	− 0·64	3·0	− 4·4	6	− 9	Strathpeffer.
	p Glencarron .. S	47	17th	36	16th	45·5	40·3	43·0	+ 6·4	14	5	7	1·65	− 0·64	*	*	*	*	*
	p Fort Augustus S	50	17th. 18th	37	15th, 16th	46·8	40·1	43·6	+ 5·9	19	5	4	0·31	− 0·95	4·2	+ 0·3	8	+ 1	Fort Augustus.
	p Fort William S	49	17th	37	16th, 21st	46·1	40·5	43·4	+ 4·0	16	4	6	0·85	− 1·27	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	52	17th	36	16th	49·6	39·1	44·6	+ 6·5	30	8	1	0·02	− 0·46	*11·4*	—	*23*	—	*Gordon Castle.*
	a Nairn	51	17th	35	16th	48·0	39·7	44·0	+ 6·6	24	6	2	0·06	− 0·36	7·8	—	16	—	Nairn.
	a Aberdeen	52	17th	31	15, 19, 20th	46·0	33·0	39·8	+ 2·1	11	36	0	0·00	− 0·52	20·5	+ 9·1	41	+18	Aberdeen.
	a Balmoral .. S	50	20th	28	21st	48·1	34·0	41·3	+ 7·1	17	34	1	0·02	− 0·67	27·1	—	54	—	Crathes S.
	p Crieff .. .. S	51	17th, 18th	34	21st	46·5	36·6	41·8	+ 4·6	13	24	1	0·02	− 0·89	19·0	—	37	—	Balruddery
	a Leith	51	17th	32	21st	47·4	39·6	43·7	+ 4·6	22	7	0	0·00	− 0·37	*	*	*	*	Edinburgh.
	p West Linton.. S	47	17th	27	21st	42·8	34·1	38·6	+ 2·4	2	29	3	0·07	—	*11·0*	—	*21*	—	*West Linton.*
	p Marchmont .. S	52	18th	31	20th, 21st	45·6	33·7	39·9	+ 3·3	10	33	2	0·04	− 0·47	19·3	+ 9·2	37	+18	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	50	17th, 18th	29	21st	47·2	34·8	41·3	+ 3·1	15	31	0	0·00	− 0·53	21·4	—	40	—	Cockle Park.
	a Shields	50	17th, 18th	25	21st	45·6	34·4	40·2	+ 1·4	10	31	0	0·00	− 0·36	*9·6*	+ *3·6*	*18*	+ *7*	*Newcastle.*
	p Durham	50	17th	21	21st	44·4	29·0	37·0	− 0·1	7	49	1	0·01	− 0·33	22·9	+13·2	43	+25	Durham.
	p Rounton .. M	49	17th	26	20th	43·3	30·5	37·2	+ 0·2	4	43	2	0·04	− 0·36	*	*	*	*	*
	p Scarborough.. M	49	19th	28	20th	46·4	33·3	40·1	+ 1·7	12	35	0	0·00	− 0·44	19·0	—	35	—	Scarborough.
	p York	47	17, 18, 19th	25	20th	44·4	31·4	38·2	+ 0·2	7	41	0	0·00	− 0·37	6·0	− 0·7	11	− 1	York.
— b, South.	a Spurn Head	43	17th, 18th	30	20th	40·4	32·7	36·7	− 1·9	0	37	0	0·00	− 0·28	*	*	*	*	*
	a Lincoln	46	16th	29	20th	41·3	31·2	36·5	− 0·7	0	39	2	0·05	− 0·32	11·3	—	21	—	Skegness.
	a Fulbeck	49	16th	31	15, 20, 21st	42·0	32·8	37·6	+ 0·2	0	31	2	0·03	− 0·35	15·8	—	29	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	45	16th	29	21st	41·8	32·3	37·2	+ 0·3	0	34	3	0·03	—	10·1	—	*18*	—	*Lowestoft.*
	p Hillington .. M	43	16th	27	17th	39·6	30·0	35·0	− 1·7	0	49	3	0·04	− 0·41	12·1	—	22	—	Cromer.
	a Yarmouth	45	16th	30	21st	40·3	32·6	36·6	− 0·8	0	38	0	0·00	− 0·37	7·8	− 2·8	14	− 5	Hillington.
	a Norwich	43	16th, 18th	27	17th	39·5	31·5	35·7	− 1·5	0	44	4	0·05	—	10·5	—	19	—	Yarmouth.
	p Geldeston	48	16th	25	17th	41·5	30·8	36·4	− 1·3	0	39	3	0·03	− 0·31	*	*	*	*	*
— b, South.	p Cambridge	48	16th	26	16th, 17th	42·3	31·1	36·9	− 0·6	1	40	1	0·01	− 0·30	12·2	0·0	22	0	Geldeston.
	a *Felixstowe*	*44*	*16th*	*27*	*17th*	*40·6*	*31·6*	*36·3*	− *1·9*	*0*	*40*	*4*	*0·04*	—	12·8	+ 1·3	23	+ 2	Cambridge.
	a Clacton-on-Sea ..	44	16th	27	16th, 17th	40·3	30·9	35·8	− 2·3	0	43	1	0·02	—	*11·8*	—	*21*	—	*Felixstowe.*
	a Rothamsted ..	45	16th	24	15th	40·9	30·1	35·7	− 1·5	0	44	3	0·05	− 0·40	7·4	—	13	—	Clacton.
	a *Shoeburyness* ..	*44*	*16th*	*25*	*17th*	*40·6*	*31·7*	*36·3*	− *2·3*	*0*	*40*	*2*	*0·03*	− *0·25*	12·4	+ 1·4	22	+ 3	Rothamsted.
	p Tottenham	44	16th	25	16th	40·7	34·1	37·5	− 1·2	0	32	0	0·00	—	*7·7*	—	*14*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	a Harrogate	45	16th, 18th	26	21st	43·0	33·7	38·5	+ 1·7	3	31	2	0·03	− 0·47	2·6	—	5	—	Tottenham.
	a Bawtry	48	17th	25	19th, 20th	41·6	31·4	36·7	− 1·0	0	37	1	0·02	− 0·35	20·0	—	37	—	Harrogate.
	p *Buxton* .. M	*45*	*16th, 17th*	*25*	*21st*	*39·8*	*31·3*	*35·7*	+ *0·4*	*0*	*44*	*0*	*0·00*	− *1·07*	7·1	− 1·2	13	− 2	Worksop.
	a Nottingham ..	46	17th	29	17th, 20th	42·1	32·1	37·3	− 0·4	0	36	2	0·02	− 0·39	*6·0*	—	*11*	—	*Buxton.*
	p Birmingham, Edgbsn	47	17th	29	20th	42·0	33·9	38·1	+ 0·4	0	27	0	0·00	− 0·44	4·4	—	8	—	Nottingham.
	a Raunds .. M	48	16th	28	17th	42·1	31·4	37·0	0·0	0	39	0	0·00	—	3·1	—	6	—	Birmingham.
— b, West.	a Oxford	48	16th	27	15th	41·3	32·0	36·8	− 2·1	0	36	1	0·01	− 0·38	*	*	*	*	*
	a Cheadle .. M	46	16th, 17th	28	21st	41·5	33·7	37·8	+ 1·2	0	29	0	0·00	− 0·55	10·2	− 0·6	18	− 1	Oxford.
	p Shrewsbury	48	16th	25	19th	44·4	31·3	38·1	− 0·1	7	41	0	0·00	—	12·4	—	23	—	Sheffield.
	a Hereford .. M	47	16th, 17th	26	19th	41·7	30·1	36·1	− 2·1	0	41	1	0·01	− 0·49	*	*	*	*	*
	a Cirencester	47	16th	22	15th	39·7	27·3	33·8	− 3·4	0	57	1	0·02	− 0·49	*	*	*	*	*
	a Bath	47	16th	23	15th, 16th	41·7	28·3	35·3	− 4·1	0	47	0	0·00	− 0·53	10·2	− 0·4	18	− 1	Cirencester.
5. ENGLAND, S.E.	p Kew	46	16th	22	16th	41·8	33·8	38·0	− 0·9	0	28	0	0·00	− 0·37	14·6	—	26	—	Bath.
	a Marlborough ..	45	18th	22	15th	40·5	29·4	35·2	− 2·2	0	48	3	0·03	− 0·52	*9·9*	—	*17*	—	*Ramsgate.*
	a Margate	44	16th	30	15th	40·9	33·1	37·2	− 1·8	0	34	0	0·00	− 0·37	5·4	− 4·0	10	− 7	Kew.
	a Wisley, Surrey ..	43	16th	23	15th	40·6	32·1	36·5	− 2·7	0	39	1	0·01	—	9·6	+ 0·1	17	0	Marlborough.
	a Swarraton .. M	42	18th	21	15th	39·5	30·2	35·0	− 2·5	0	49	3	0·05	− 0·50	7·6	− 3·1	13	− 6	Margate.
	a Tunbridge Wells M	42	16th. 17th	25	15th	39·1	31·5	35·5	− 2·0	0	46	3	0·07	− 0·51	9·8	—	17	—	Worthing.
	a Dungeness	43	15,17,18,20,21	25	16th	42·4	32·1	37·5	− 1·7	1	37	1	0·02	− 0·38	6·9	− 3·7	12	− 7	Tunbridge Wells.
	p Hastings	44	16th	32	15th, 16th	41·2	35·2	38·3	− 1·1	0	26	3	0·04	− 0·47	5·7	—	10	—	Littlestone.
	p Southampton ..	44	18th	25	15th, 16th	40·8	33·3	37·2	− 2·8	0	34	3	0·07	− 0·49	*7·4*	− *6·5*	*12*	− *11*	*Hastings.*
	a Ventnor	46	16th	32	15th	43·1	36·7	40·0	− 1·7	3	20	1	0·02	− 0·54	0·8	− 10·8	1	− 19	Southampton.
															7·6	− 5·4	13	− 9	Ventnor.
LONDON .. —	a *Westminster* ..	*46*	*16th*	*27*	*15th, 16th*	*41·8*	*33·6*	*37·9*	− *0·9*	*0*	*29*	*0*	*0·00*	− *0·38*	4·5	− 8·2	8	− 14	Eastbourne.
	a *Greenwich*	*44*	*16th*	*24*	*15th*	*40·7*	*33·6*	*37·0*	− *1·7*	*0*	*35*	*2*	*0·02*	− *0·34*	*0·2*	− *4·1*	*0*	− *7*	*Westminster.*
															1·8	− *7·4*	*3*	− *13*	*Greenwich.*
6. — a, SCOTLAND. W.	a Poltalloch .. S	50	17th	33	21st	47·3	39·0	43·3	+ 4·2	22	8	5	0·17	− 0·88	*	*	*	*	*
	p Glasgow	48	17th, 18th	35	21st	45·7	39·5	42·7	+ 4·2	15	7	3	0·06	− 0·67	3·7	− 1·3	7	− 3	Glasgow.
	p Rothesay .. S	50	17th	35	21st	47·4	40·3	44·0	+ 4·4	21	5	5	0·22	− 0·76	*	*	*	*	*
	a Kilmarnock ..	48	16th, 17th	28	21st	45·9	36·7	41·5	+ 1·8	11	23	5	0·09	—	*8·9*	—	*17*	—	*Kilmarnock.*
	a Colmonell .. S	49	17th	37	17th, 20th	46·1	38·9	42·6	+ 2·9	17	9	2	0·09	− 0·91	*	*	*	*	*
	p Dumfries .. S	48	17th	34	16th	44·9	38·4	41·8	+ 3·5	8	16	2	0·09	− 0·67	*3·9*	—	*7*	—	*Dumfries.*
— b, ISLE OF MAN	p Cally, Gatehouse S	50	19th	32	16th	46·7	37·6	42·3	+ 4·6	21	12	1	0·07	− 0·95	*	*	*	*	*
	p Douglas	48	16th	37	20th	45·2	39·2	42·3	+ 1·6	14	8	2	0·08	− 0·70	5·8	− 5·2	11	− 10	Douglas.
7. — a, ENGLAND, N.W.	p Aspatria	46	16th, 17th	33	20th	43·5	37·8	40·8	+ 2·9	4	17	4	0·14	− 0·49	8·6	—	16	—	Hoylake.
	p Newton Rigg ..	47	17th. 18th	28	21st	42·9	32·2	37·8	+ 0·9	3	37	2	0·02	− 0·72	7·4	—	14	—	Aspatria.
	p Stonyhurst	45	17th	29	21st	42·1	35·4	38·9	+ 0·9	0	24	3	0·13	− 0·81	15·3	+ 6·4	29	+12	Newton Rigg.
	p Blackpool .. M	47	16th	30	21st	43·2	36·7	40·1	+ 1·4	3	20	3	0·04	− 0·57	0·2	− 7·5	0	−14	Stonyhurst.
	p M'nch'ster, Prestwich	44	17th, 18th	28	21st	41·5	33·6	37·7	− 0·5	0	30	2	0·03	− 0·67	3·6	− 5·0	7	− 9	Blackpool.
	a Liverpool (Bidston)	48	17th	28	21st	43·3	36·3	39·9	0·0	4	22	0	0·00	− 0·48	*0·0*	− *4·7*	*0*	− *9*	*Prestwich.*
	a Hawarden Bridge ..	49	17th	27	21st	43·5	34·7	39·3	− 0·9	4	28	0	0·00	− 0·37	*8·9*	—	*16*	—	*Liverpool.*
— b, NORTH WALES	p Llandudno .. M	48	16th	32	20th, 21st	44·9	36·6	40·9	− 0·6	8	22	0	0·00	− 0·57	*2·6*	− *6·6*	*5*	− *12*	*Southport.*
	a Holyhead	48	16th, 17th	38	21st	46·0	40·0	43·1	+ 1·2	16	6	1	0·05	− 0·60	*15·5*	—	*28*	—	*Rhyl.*
	p Bettws-y-Coed ..	48	18th, 19th	28	21st	44·7	31·6	38·4	− 2·3	8	40	1	0·01	—	13·0	+ 2·3	24	+ 4	Llandudno.
8. — a, SOUTH WALES	a Llangammarch Wells	48	16th	26	20th	42·6	31·0	37·0	− 0·2	2	40	3	0·06	—	5·2	—	9	—	Aberdovey.
	a Pembroke	49	16th	36	15th, 21st	46·6	39·6	43·2	+ 0·6	18	7	3	0·06	− 0·69	15·7	—	29	—	Bettws-y-Coed.
	p Cardiff	48	16th	28	15th	40·4	32·0	36·4	− 3·2	0	39	2	0·03	− 0·78	7·0	—	13	—	Aberystwyth.
— b, ENGLAND, S.W.	a Clifton	44	17th, 18th	27	16th	40·6	30·5	35·8	− 3·7	0	43	1	0·01	− 0·62	10·7	—	19	—	Llangammarch Wells.
	a Shaftesbury .. M	44	11th	29	20th	39·9	32·6	36·4	− 1·2	0	39	2	0·05	− 0·54	8·3	− 3·7	15	− 7	Pembroke.
	a Arlington	45	16th	26	15th	41·4	33·3	37·5	− 1·8	0	32	2	0·12	− 0·92	*8·3*	—	*15*	—	*Cardiff.*
	a Cullompton .. M	47	18th	22	15th	42·7	33·1	38·1	− 1·5	2	33	4	0·10	− 0·60	*11·1*	− *2·0*	*20*	− *4*	*Tenby.*
	a Portland Bill ..	46	16th	33	15th	43·9	37·3	40·7	− 1·1	5	18	1	0·01	—	*6·3*	—	*11*	—	*Clifton.*
	p Plymouth	46	16th, 17th	28	15th	43·7	35·9	40·0	− 2·2	5	24	1	0·05	− 0·70	11·6	− 0·2	20	0	Newquay.
	p Falmouth	48	16th	35	15th	44·4	39·4	42·0	− 1·5	7	7	1	0·04	− 0·92	8·4	− 1·8	15	− 3	Cullompton.
															10·4	—	*18*	—	*Weymouth.*
															1·7	− 9·8	3	−17	Plymouth.
															11·9	− 1·0	21	− 2	Falmouth.
															8·7	− *4·7*	*15*	− *8*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	50	17th	35	21st	46·9	38·1	42·7	+ 1·8	21	11	1	0·01	− 0·59	*	*	*	*	*
	a Blacksod Point ..	50	16, 17, 18, 19	36	16th	49·0	42·3	45·8	+ 3·2	27	0	3	0·19	− 0·93	*	*	*	*	*
	p Markree Castle ..	50	18th	28	16th	46·7	35·5	41·3	+ 1·9	13	27	3	0·53	− 0·31	8·3	− 1·0	15	− 2	Markree Castle.
— b, East.	a Birr Castle	49	17th	24	19th	45·9	32·3	39·4	− 0·2	11	39	2	0·52	− 0·11	*20·4*	+ *8·9*	*37*	+*16*	*Birr Castle.*
	p Armagh	48	17th	33	20th	44·9	36·9	41·1	+ 1·6	8	21	1	0·14	− 0·43	12·8	+ 2·6	24	+ 5	Armagh.
	a Donaghadee	50	17th	33	17th	45·4	37·3	41·5	+ 1·0	10	20	3	0·04	− 0·54	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	49	17th	30	19th	44·2	35·6	40·1	− 1·4	6	25	2	0·08	− 0·42	10·4	− 2·7	19	− 5	Phœnix Park.
	a Kilkenny	47	16, 17, 18, 21	25	19th	44·7	30·9	38·1	− 2·0	8	43	4	0·49	− 0·28	*	*	*	*	*
	a Waterford	48	18th	32	20th	46·4	36·3	41·6	+ 0·5	12	25	3	0·49	− 0·39	*	*	*	*	*
— b, West.	a Birr Castle	49	17th	24	19th	45·9	32·3	39·4	− 0·2	11	39	2	0·52	− 0·11	20·4	+ 8·9	37	+16	Birr Castle.
	a Foynes	49	16th, 18th	31	20th	47·4	34·9	41·4	− 0·5	15	30	6	0·48	− 0·36	*	*	*	*	*
	a Cahir .. .. M	48	19th	30	15th	46·0	34·4	40·4	− 0·9	11	31	3	0·54	—	*	*	*	*	*
	a Killarney	53	16th	38	15, 16, 20th	49·7	39·8	45·0	+ 2·5	30	6	4	0·27	− 1·15	*	*	*	*	*
	a Valencia	51	16th, 19th	35	17th	49·0	40·1	44·7	+ 0·2	27	5	3	0·79	− 0·46	8·5	− 2·8	15	− 5	Valencia.
	a Roche's Point ..	48	16th, 21st	38	15th	46·9	41·4	44·3	+ 0·8	19	2	4	0·28	− 0·75	2·2	—	4	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	53	16th	37	15th, 20th	48·4	38·9	43·8	− 1·9	26	9	1	0·02	− 0·68	8·5	− 4·9	14	− 8	Scilly.
	a Jersey, St. Aubins ..	46	16th	33	15th, 16th	43·4	35·4	39·6	− 3·0	4	25	1	0·04	− 0·63	14·0	− 1·1	23	− 2	St. Helliers.
	a Guernsey	50	15th	37	16th, 21st	44·9	38·3	41·7	− 1·5	8	16	2	0·04	− 0·70	8·8	− 2·8	15	− 5	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 7·4 hrs. (− 4·6 hrs.), 13 % (− 8 %); Bournemouth, 10·5 hrs., 18 %; Bognor, hrs., %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°	°
0.	Baltasound	—	—	41·1	—
0.	— —				
0.	— —				
1.	Aberdeen	—	—	—	40·0
1.	Crathes	6	15	35·2	38·7
1.	Balmoral	5	25	—	—
1.	West Linton	—	—	—	—
1.	Marchmont	5	26	36·1	—
2.	Cockle Park	5	26	36·9	39·2
2.	Durham	5	16	—	—
2.	York	—	—	38·3	42·0
2.	Hull	5	21	36·9	42·3
2.	Lincoln	—	—	35·4	40·8
2.	Rauceby	5	21	37·0	42·6
3.	Norwich	5	22	—	—
3.	Yarmouth	—	—	35·3	41·7
3.	Lowestoft	3	26	36·1	41·4
3.	Cambridge	4	22	36·4	41·9
3.	Clacton-on-Sea	4	17	38·3	43·7
3.	Southend	4	21	38·0	—
3.	Tottenham	2	22	—	43·4
4.	Harrogate	3	21	38·5	40·3
4.	Huddersfield	2	23	37·6	41·3
4.	Buxton	4	22	37·0	42·1
4.	Sheffield	4	22	37·0	41·8
4.	Nottingham	5	25	35·4	39·5
4.	Birmingham	3	26	39·3	44·0
4.	Oxford	3	22	—	—
4.	Hereford	5	23	—	—
4.	Cirencester	5	20	37·5	41·9
4.	Bath	—	—	—	—
5.	Margate	3	24	38·1	42·2
5.	Greenwich	2	19	—	—
5.	Westminster	3	21	—	—
5.	Kew	2	16	36·6	43·1
5.	Canterbury	3	21	37·3	43·7
5.	Tunbridge Wells	2	13	36·4	—
5.	Wisley	2	18	36·5	42·0
5.	Worthing	2	20	36·9	43·3
5.	Portsmouth	2	17	38·1	44·1
6.	Glasgow	1	26	—	—
6.	Rothesay	—	—	—	42·0
6.	Colmonell	0	32	—	—
6.	Dumfries	0	31	38·6	40·4
6.	Douglas	0	31	—	—
7.	Aspatria	1	26	39·5	42·6
7.	Newton Rigg	6	19	39·5	41·1
7.	Burnley	2	29	37·8	41·4
7.	Southport	2	27	37·9	40·6
7.	Manchester City	1	29	37·9	42·6
7.	Bettws-y-Coed	3	26	39·0	44·0
8.	Llangammarch Wells	6	15	39·4	44·1
8.	Cardiff	5	21	37·0	42·5
8.	Clifton	5	24	—	—
8.	Plymouth	2	22	39·5	—
9.	Armagh	1	30	40·5	43·3
9.	Markree	2	24	41·6	44·9
10.	Dublin, Trin. Coll.	5	22	38·1	43·3
11.	Guernsey, Brooklyn	1	29	42·2	46·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·4
	Kirkwall	43	40	42·2
	Wick	44	43	43·4
SCOTLAND, E.	Cromarty	40	38	38·9
	Pennan Bay	41	40	40·5
	Aberdeen, Cove Bay	42	40	41·5
ENGLAND, N.E.	Burnmouth, Berwick	40	39	39·4
	Scarborough	43	39	41·3
ENGLAND, E.	Shipwash Lightship	44	40	41·6
	Margate‡	40	39	39·0
ENGLAND, S.E.	Eastbourne‡	41	40	40·9
SCOTLAND, W.	Lamlash	45	45	45·0
	Ballantrae	43	42	42·9
ENGLAND, N.W.	Port Erin	47	45	45·8
ENGLAND, S.W.	Newquay	46	45	46·0
	Scilly	48	47	47·7
	Plymouth‡	48	47	47·8
	Salcombe	47	46	47·0
IRELAND, N.W.	Sheephaven	45	44	44·4
	Teelin	46	42	44·2
IRELAND, S.W.	Cleggan	47	43	45·1
	Seafield	47	45	46·0
IRELAND, E.		—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR DECEMBER, 1910.

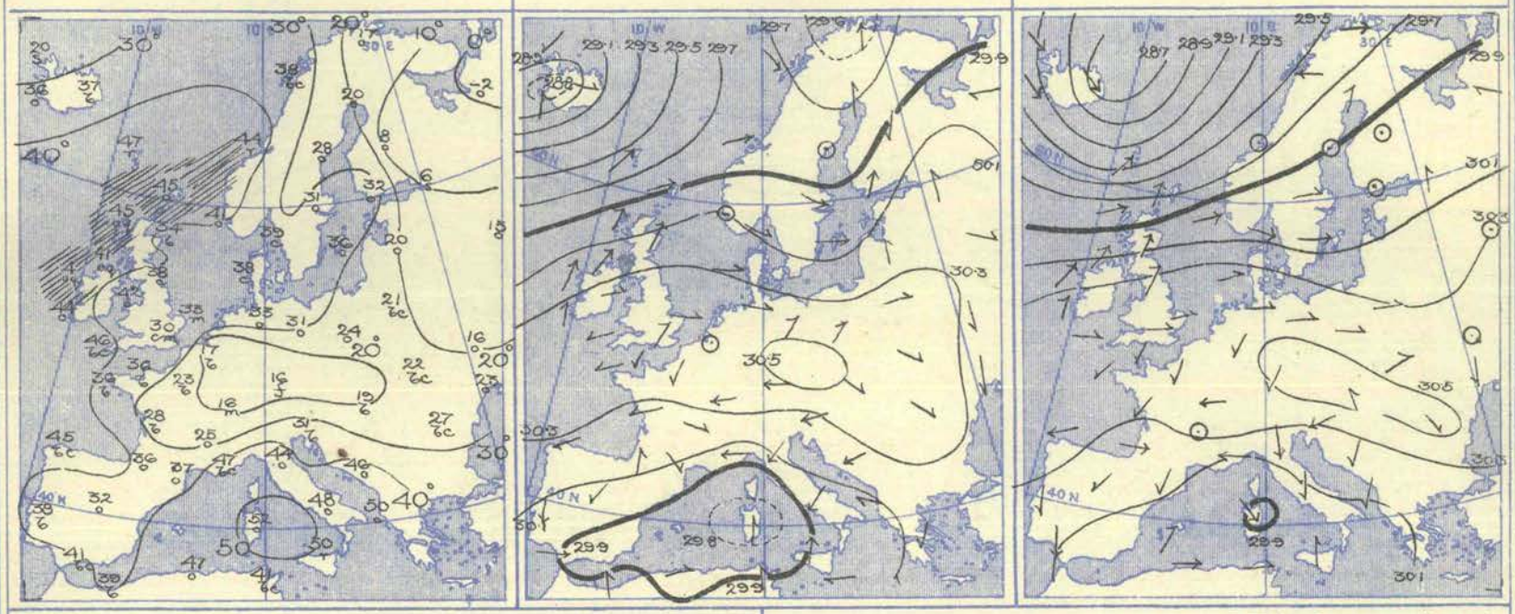
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 51, p. 410	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	2·17	+0·97	6	+ 2	13	+ 4
Station Values.— Additions.																		
No. 50, p. 403	Cromer	55	16th	40	16th	51.3	42·6	47·1	+8·6	36	0	6	1·51	—	6·0	—	12	—
No. 51, p. 411	Strathpeffer	54	23rd	35	20, 21	47·5	37·7	42·8	+5·7	24	12	7	1 21	+0·43	8·6	+1 8	19	+ 4
No. 51, p. 411	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	16·5	—	32	—
No. 51, p. 411	Cromer	53	23rd	34	20th	49·3	37·4	43·6	+6·0	31	13	7	0 17	—	14 3	—	28	—
No. 51, p. 411	Raunds	53	23, 24	31	20th	49·4	35·2	42·6	+4·4	33	19	5	0·37	—	—	—	—	—
No. 51, p. 411	Bettws-y-Coed	53	19, 24	35	20th	49·9	32·4	44·9	+2·6	31	7	7	1·21	—	5·6	—	11	--
No. 52, p. 419	Newcastle	—	—	—	—	—	—	—	—	—	—	—	—	—	12·6	+7·1	26	+15
Station Values.— Corrections.																		
No. 48, p. 387	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	8·3	-2·3	16	- 4
No. 48, p. 387	Markree Castle	—	—	—	—	—	—	—	—	—	—	—	0·17	-0·83	—	—	—	—
No. 49, p. 295	York	—	—	—	—	—	—	—	—	—	—	—	0·52	-0·08	—	—	—	—
No. 50, p. 403	Rounton	—	—	—	—	—	41·8	45·3	+7·0	24	1	—	—	—	—	—	—	—
No. 50, p. 403	Pembroke	—	—	—	—	—	—	—	—	—	—	—	2·06	+1·16	—	—	—	—
No. 51, p. 411	West Linton	51	23rd	—	—	45·9	—	40·6	+3·9	11	29	—	—	—	—	—	—	—
No. 51, p. 411	York	—	—	—	—	—	—	—	—	—	—	3	0·10	-0 32	11·0	+5·4	22	+11
No. 51, p. 411	Margate	—	—	—	—	—	—	—	—	—	—	—	0·10	-0·36	—	—	—	—
No. 51, p. 411	Aspatria	—	—	—	—	43·1	—	44·0	+5·3	24	—	—	—	—	—	—	—	—
No. 51, p. 411	Aberystwyth	—	—	—	—	—	—	—	--	—	—	—	—	—	9·6	—	18	—
No. 51, p. 411	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	10·1	-0·2	—	—
No. 51, p. 411	Donaghadee	—	—	—	—	—	40·1	45·3	+3·9	31	5	—	—	—	—	—	—	—
No. 51, p. 411	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	12 0	—	22	--
No. 52, p. 419	Leith	—	—	27	28th	—	36·4	40·4	+1·1	—	22	—	—	—	—	—	—	—
No. 52 p. 419	Buxton	—	—	—	—	—	—	—	—	—	—	5	1·14	-0·01	—	—	—	—
No. 52, p. 419	Aspatria	—	—	—	—	—	34·8	39·2	+0·7	—	27	—	—	—	—	—	—	—
No. 52, p. 419	Jersey	—	—	—	—	—	42·0	46·0	+2·0	28	0	—	—	—	—	—	—	—
Station Values.— Additions.												Grass Min. No. of Days.	Grass Min. Lowest reading			Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.	
No. 51, p. 412	Lowestoft											1	30			42·4	45·7	
No. 51, p. 412	Bettws-y-Coed											0	24			45·9	45·5	
No. 51, p. 412	Dublin Trin. Col.											1	29			—	—	

Sunday, 15th January, 1911

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine in many localities, but a good deal of cloud generally, with mist or fog at some of our own stations and at various places on the Continent. Rain falling at some stations in the extreme north and north-west and also at a few over the Mediterranean region, and snow at St. Petersburg, Uleaborg, and Vardö. Some rain later in the far west and north of these Islands and in Norway, and heavier falls in Algeria and Sicily.

Temperature changed rather irregularly; fallen in the east, risen quickly in Scandinavia. Morning readings ranging from −2° at Archangel and between 10° and 20° over a very large area in the east and north-east, as well as in Bavaria and its vicinity, to about 45° on the extreme west and north-west of these Islands and to 50° or a little higher at a few stations on the shores of the Mediterranean. Remaining below 40° in some English localities and below 32° in most parts of central Europe and the east of France; rising to about 55° at several places in the far south, and to about 60° at Tunis and Malta. Sharp frost at night in southern and south-eastern England.

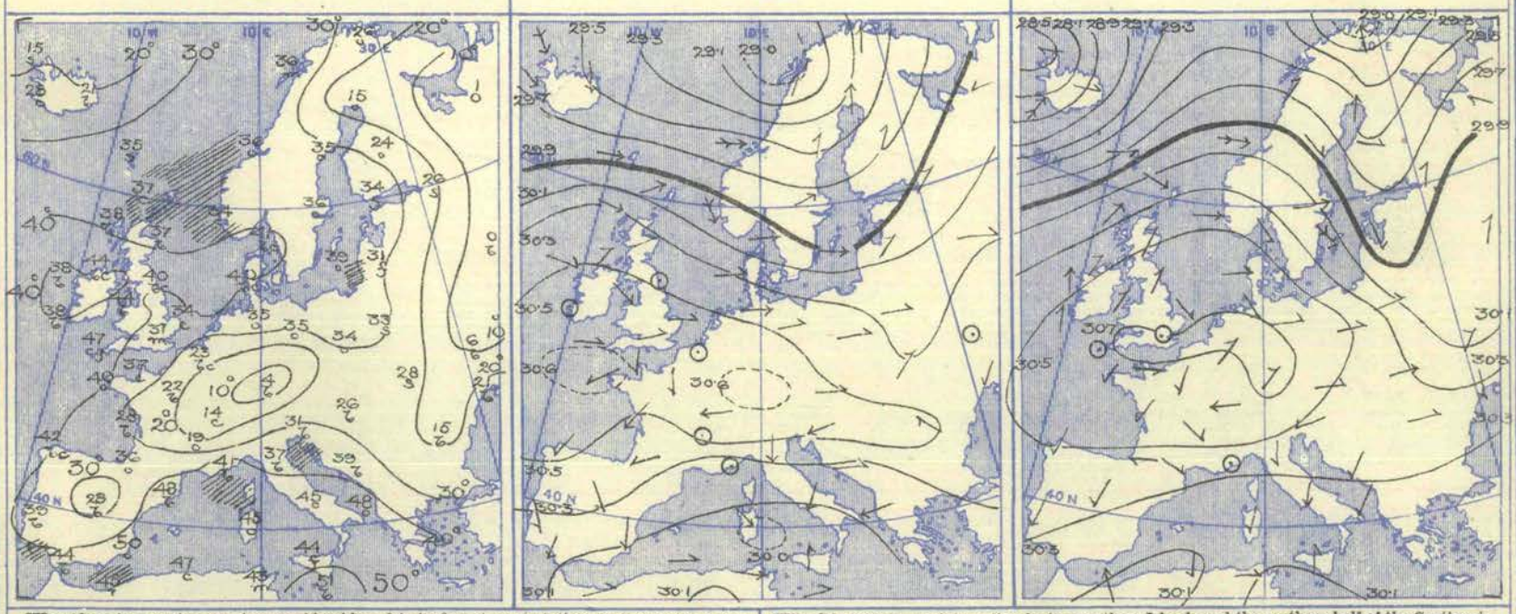
Wind in morning moderate to strong or high from the South-Westward over our northern and western districts and between these Islands and Iceland, and high from North-East at Isafjord. Light anticyclonic airs in the south of this country and in central Europe, and a light to fresh breeze, mainly from East and North-East, prevailing over southern Europe. Veering to the North-Westward in Iceland and blowing a gale in places by evening. Increasing to a high wind from North at Florence, but little other change.

Barometer in morning 30·3 ins. and upwards in an elongated high pressure system extending from near the Azores to Roumania; below 29·8 ins. in a depression having its centre over Sardinia; below 29·6 ins. in another in the extreme north of Scandinavia, and below 28·8 ins. in a deep disturbance over Iceland. Anticyclone extending further Eastward during day, but not much modification occurring in the general distribution of pressure. Icelandic depression travelling Eastward, and barometer falling in the north of these Islands and in Norway.

Monday, 16th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning varying considerably; fair to fine at most stations in the south of our area, and at many places elsewhere, but snow falling at Wick and over a large area in northern Europe and Poland and rain at Oran. Rain experienced in Algeria during day and also in the south of Sardinia, and heavy snow at Keiff.

Temperature fallen at many places in the south of our area, as well as in Ireland, Scotland, and Norway. Morning readings ranging from 51° at Malta, 50° at Oran, and 48° at Barcelona, to below 20° over a very large area in central and eastern and north-eastern Europe, to 4° at Munich, and to about zero at Moscow and Archangel. Maxima during day between 45° and 50° over the major portion of these Islands, above 50° at several stations on the shores of the Mediterranean, and 61° at Malta. Frost continuing throughout the day in central Europe, the east of France, and north of Italy.

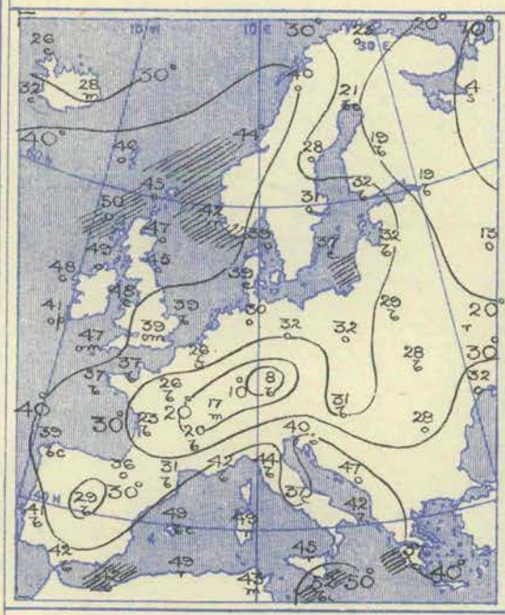
Wind in morning mainly anticyclonic over these Islands and the southern half of the Continent, A North-Westerly to South-Westerly current prevailing further north and blowing with gale force in the Icelandic region and on the west coast of Norway. Easterly and North-Easterly currents strong at some places in the south of our area; a high Easterly or North-Easterly wind prevailing at Trieste, and a high Northerly wind at Florence. Increasing to a strong breeze from South-West at Stornoway later, and to a gale from the North-Westward over the Baltic and Gulf of Finland.

Barometer in morning above 30·6 ins. in Brittany and Bavaria and above 30·4 ins. in a band extending from the Atlantic across the Bay of Biscay to the Black Sea. Below 30·0 ins. in a small minimum over southern Sardinia, and below 29·0 ins. in a larger system having its centre near Bodö. Latter travelling North-Eastward during day, but another and deeper disturbance approaching Iceland and causing the barometer to fall 0·96 in. by 6 p.m. No important change over these Islands and France. New depression in far North-West travelling rapidly away in a North-Easterly direction during night.

Tuesday, 17th January, 1911.

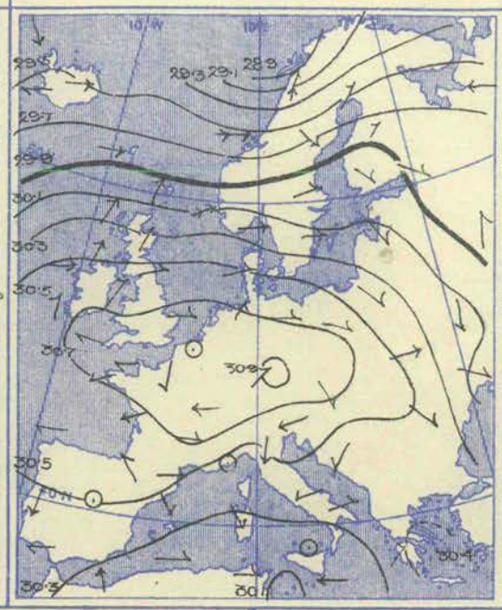
Temperature and Weather.

7 a.m.

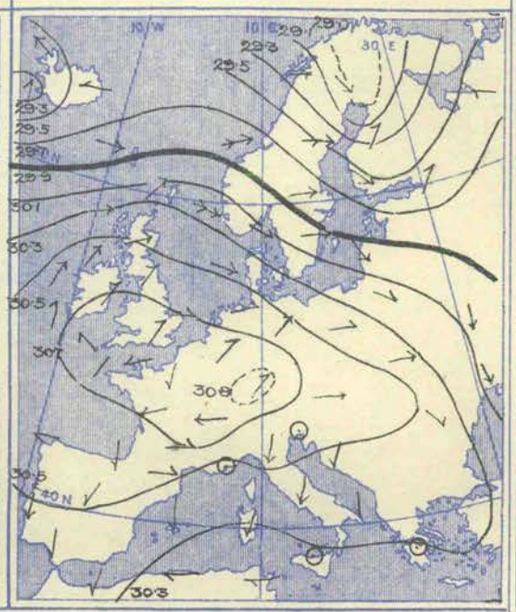


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright at most stations in France, Italy, and the Spanish Peninsula; cloudy or dull in most other regions, with rain or snow in a few places scattered over a wide area. Some rain later in Algeria and the Italian Islands, as well as on the west coast of Norway, and heavy snow at Warsaw.

Temperature risen somewhat in most parts of our area. Morning readings above 50° at a few stations in the extreme south, and just 50° in the Hebrides and north of Scotland; below 32° over most of the Continent, and below 10° at Munich and Archangel. Rising to a little above 50° during day in various parts of Scotland and northern England, and to 55° or above at some stations in the extreme south of our area. Frost continuing all day in the north and east of Europe, and also at Turin and the east of France.

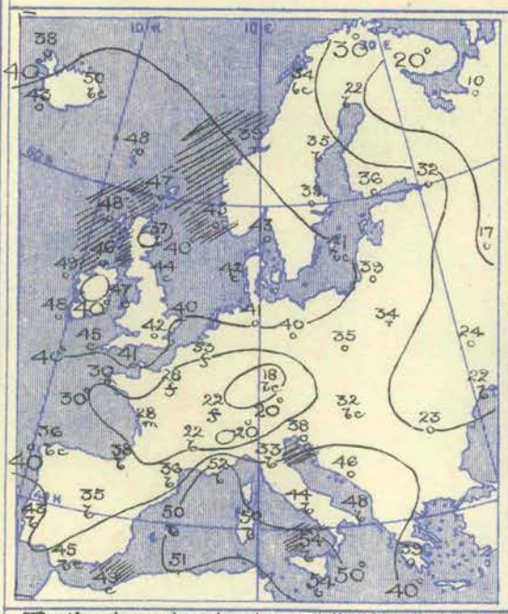
Wind in morning moderate to high from West and South-West in the extreme north of these Islands, and strong to a gale from between West and South over Scandinavia. Light, anticyclonic breezes prevailing over a large portion of our area. Gales continuing in some parts of Scandinavia all day, and wind increasing in force over the Baltic and Gulf of Finland.

Barometer in morning as high as 30·9 in. at Munich, and above 30·7 ins. over a large area; below 28·9 ins. in a large depression having its minimum to the northward of Finmark. Latter system travelling Eastward during day, but another appearing over Iceland and increasing the gradient in that region. No change of importance occurring in the form or intensity of the anticyclone.

Wednesday, 18th January, 1911.

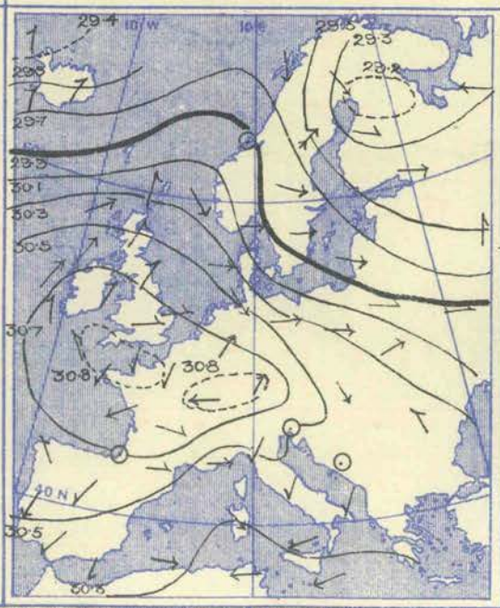
Temperature and Weather.

7 a.m.

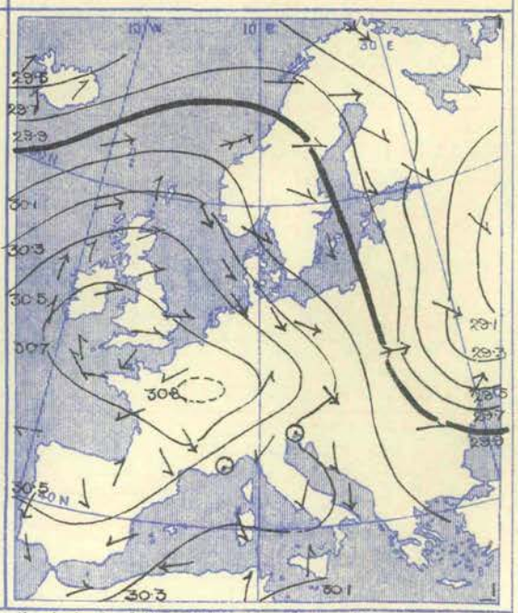


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at some stations in central Europe, and also at Christiansund and on the coast of Algeria; fair to fine in many other regions, but much cloud over large areas. Heavy rain later on the coast of Norway and in Algeria, and some snow in various Russian localities.

Temperature risen in Sweden, Denmark, and North Germany. Morning readings ranging from 10° at Archangel, and below 20° at many places in Finland and Russia, and at Munich to above 45° on our western and northern coasts, and to above 50° at a few stations on the shores of the Mediterranean. Rising later to nearly 60° here and there in the extreme south and to 50° at some of our own northern stations, but remaining below 32° in the east of France, north of Italy, and in northern and north-eastern Europe.

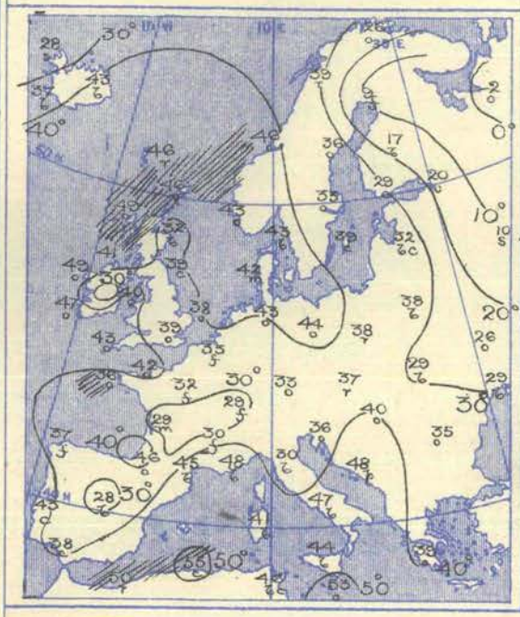
Wind in morning showing an anticyclonic circulation of little strength over these Islands and the nearer regions of the Continent, and an extensive cyclonic movement over northern Europe. Westerly to South-Westerly gales prevailing in some parts of Scandinavia, and strong Westerly breezes on the Baltic. A moderate to high Westerly wind reported in central Europe, and a high wind from East at Tunis. Veering somewhat and blowing a gale over Scandinavia and a strong wind on the Baltic and in Germany. A gale from West setting in at Lemberg, and a gale from South-West at Nicolaieff.

Barometer in morning above 30·8 ins. over the south-west of England, and the north of France, as well as in Bavaria and Switzerland. Below 29·2 ins. in a large depression having its minimum over the north of Finland, and below 29·4 ins. in the extreme north-west of Iceland. Gradient rather steep over a wide area in the central and northern countries, very slight over England and France. Pressure undergoing very little change within the anticyclonic region, but falling briskly in central and southern Russia, and gradient becoming steeper in that portion of our area.

Thursday, 19th January, 1911.

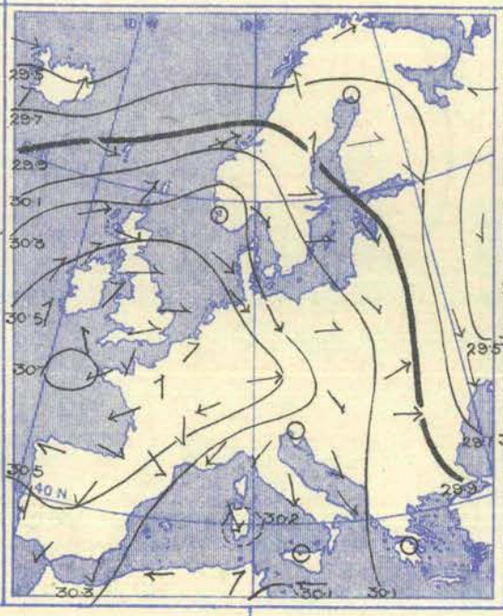
Temperature and Weather.

7 a.m.

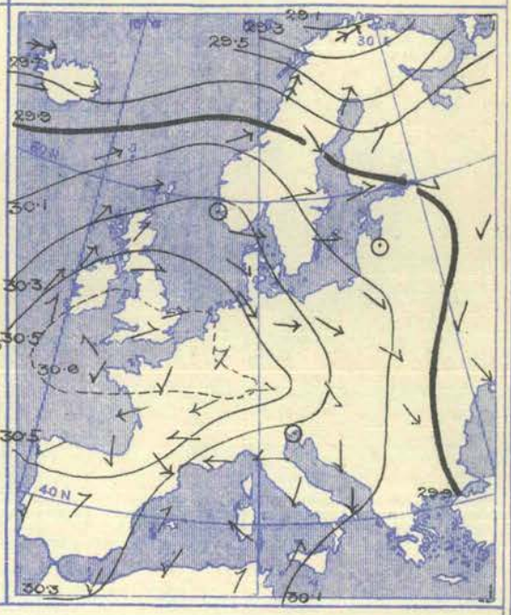


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright in the south of France and in some Spanish localities, very cloudy or overcast in most other regions, with snow at Moscow, rain at Bodö, and in some parts of Poland, as well as at Tunis and Nemours; showers prevailing at Castlebay. Heavy rain experienced later along the west coast of Norway, but very little elsewhere.

Temperature fallen over these Islands and the north-east of the Continent, risen in many other regions. Readings in morning ranging from above 50° at various stations in the extreme south of our area and 48° or 49° on our most north-western coasts to below 32° in central Ireland and over considerable patches on the Continent, to 10° at Moscow, and to −2° at Archangel. Maxima during day below 40° over a large portion of Britain and less than 32° at some French stations, but above 55° on the Riviera and on some other shores of the Mediterranean.

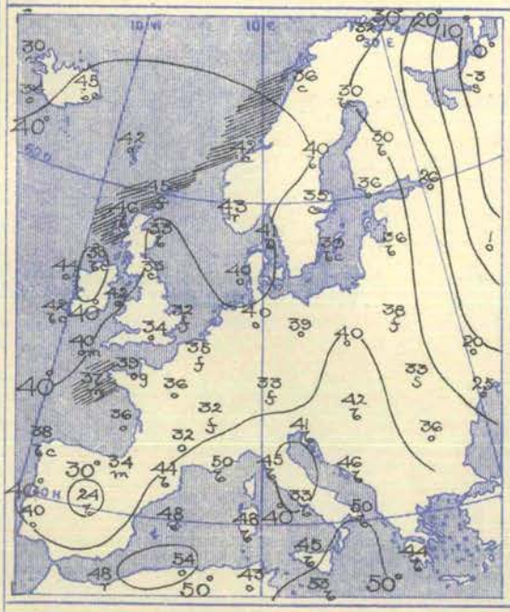
Wind in morning anticyclonic over these Islands and the nearer countries of the Continent. A strong Westerly current prevailing beyond Scotland, and blowing a gale at Christiansund. Light or moderate breezes, mainly from the Northward, general over the Mediterranean. No great change occurring later; decreasing in force at Christiansund, but increasing to a gale at Bodö and Isafjord. Continuing strong at Blacksod Point and Sumburgh Head.

Barometer in morning above 30·6 ins. over most of England, Ireland, and France; below 29·4 ins. in a depression to the northward of Iceland and in another over Russia. Very little modification taking place in the general distribution of pressure, and not much in the actual height of the barometer; northern depression apparently moving North-Eastward.

Friday, 20th January, 1911.

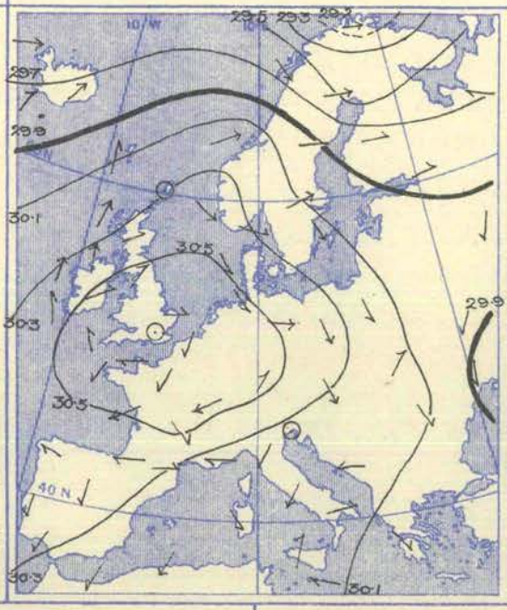
Temperature and Weather.

7 a.m.

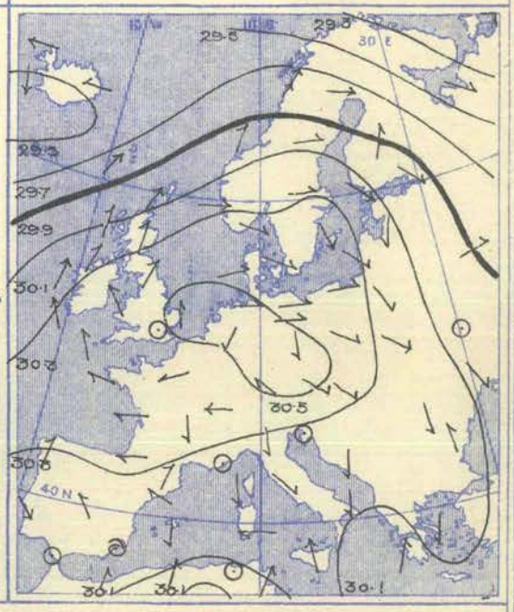


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine and bright in a few localities, but generally very cloudy or overcast. Rain falling at Skudesnaes and Nemours, and snow at Archangel and Lemberg. A good deal of mist prevailing in England. Small or moderate amounts of precipitation occurring later in some scattered regions, but remaining dry generally.

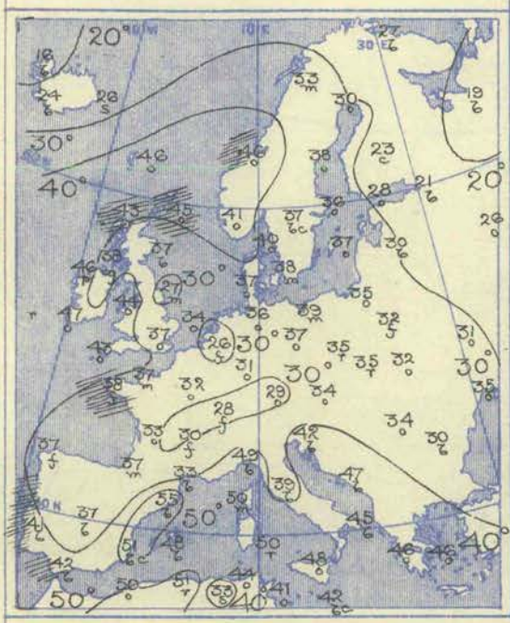
Temperature showing no decided or general change. Morning readings above 50° at a few places in the far south, and 45° or above in the north and north-west of Scotland; about zero over a large portion of Russia, but above 32° in most countries of the Continent. Maxima during day below 40° over a considerable portion of England, France, and central Europe, but 45° or above in Scotland. Thermometer rising to 60° or a few degrees higher at some places in the south of our area. Frost at night in England.

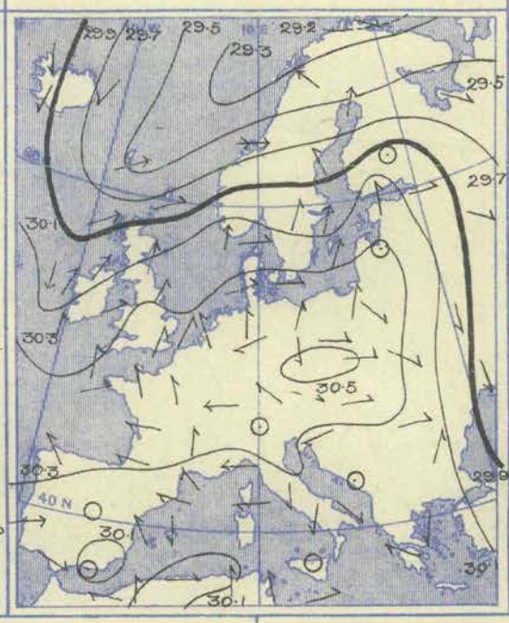
Wind in morning moderate to strong from some Westerly point over the northern parts of our area, and light from the Northward, or variable, in Russia and over the Mediterranean. A well-marked anticyclonic circulation still shown over these Islands and their neighbourhood. Backing towards South and increasing in force on our extreme west and north coasts during day, and blowing strongly from the North-Westward on the Gulf of Finland.

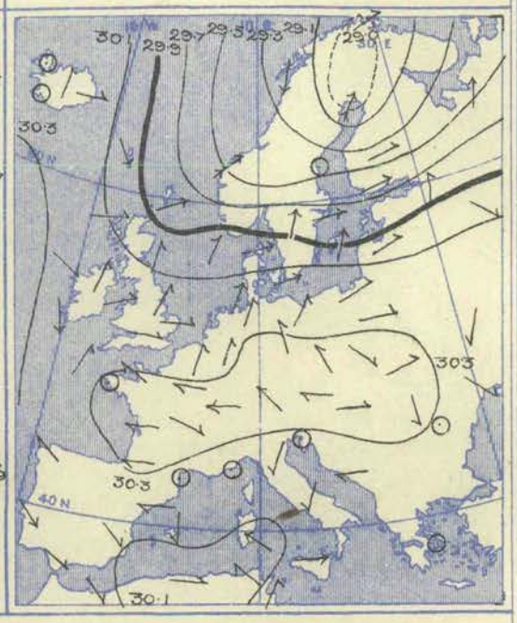
Barometer in morning above 30·5 ins. over the greater part of this country and the nearer regions of the Continent; below 29·2 ins. in the extreme north of Scandinavia, and low both in the extreme north-west and south-east of our area. Pressure decreasing briskly later over the Icelandic region, and rather decidedly in the west and north of these Islands, but little change taking place in the distribution as a whole.

Saturday, 21st January, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to very fine at most places in the south of our area, but rainy at Cagliari and Algiers. Mostly very cloudy or overcast elsewhere, with rain at some stations in central Europe and also at Blacksod and Stornoway. About 0·5 in. of rain later at some Irish stations, and small amounts in various other parts of these Islands. Rain in considerable quantities falling in Algeria.

Temperature risen in many parts of the United Kingdom, fallen over a wide area on the Continent. Morning readings ranging from about 50° at a few localities in the extreme south and about 45° on the west and south coasts of Ireland to below 32° in patches in France and the central countries, to 19° at Archangel, and to 4° at Kharkoff. Maxima during day below 40° over a wide area in England, and below freezing point in many parts of France and central Europe, but about 60° on the Riviera and in some Spanish localities.

Wind in morning light and anticyclonic over most of the mainland of the Continent. Fresh to high from the South-Westward on our most western and north-western coasts and at Thorshavn, and strong to a gale from that direction on the west coast of Norway. A light to moderate breeze from rather various quarters prevailing over the Mediterranean and southern Europe. Veering towards North-West and North on our western coasts later. Gale continuing in Norway, and extending to the north of Sweden.

Barometer in morning above 30·4 ins. in central Europe; below 29·2 ins. in the far north of Norway, and relatively low in a "V" shaped disturbance off the west of these Islands. Pressure increasing very briskly over the Icelandic region during day, and falling quickly in Scandinavia. Secondary disturbance advancing from the Atlantic over this country, and barometer beginning to rise again in its rear. Pressure giving way steadily in central Europe.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
1	1911. Jan. 16th, 11.11 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	300°, 1		35°, 5	45°, 6	35°, 6·5	5°, 8		0°, 7	Metres. 2,150	Two theodolites throughout. Large change in direction in first 200 m. No clouds.

APPARATUS USED IN THE KITE ASCENT.

No. of Ascent.	1
No. of Kites..	1
Area of Surface (sq. metres) ..	—
Capacity of Balloon (cub. metres)	·042
Length of Wire (metres)	—

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 4. FOURTH WEEK, SUNDAY, JANUARY 22ND, TO SATURDAY, JANUARY 28TH, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather.—Rain fell on several occasions in Scotland, and also in the south-west of England and the north of Ireland, but the quantity was generally slight. In other parts of the United Kingdom the weather, although often very cloudy, and in many places foggy, was mostly dry, and occasionally fine and bright.

Temperature was above the average, the excess amounting to about 4° in some of the northern and north-western districts. The highest of the maxima were recorded on the 25th or 26th, and ranged from 59° in Ireland S. and 56° in England E. and the Midland Counties to 50° in Scotland N. The lowest of the minima, which occured in most places during the earlier half of the week, ranged from 25° in England N.E. and 26° in the Midland Counties and Ireland S. to 32° in Scotland N., and to 37° in the English Channel. The lowest readings on the grass were 20° at Tunbridge Wells, 21° at Dublin, 22° at Crathes, Rauceby and Hereford, and 23° at Kew.

Mean Temperature of the Sea. On almost all parts of the coast the water was warmer than during the corresponding week of last year, the greatest difference being about 5° at Kirkwall and Teelin. The means for the week ranged from 48° at Scilly, 47° at Plymouth, and about 46°·5 at Port Erin and Salcombe to 40° at Margate and Pennan Bay, 39° at Burnmouth, and 38° at Cromarty.

Rainfall was less than the normal in all districts. Over eastern, central and southern England the fall was less than 0·1 inch and at many stations the week was rainless.

Bright Sunshine was below the average except in England S.E. and Ireland S., the deficit in the western and northern districts being large. The percentage of the possible duration ranged from 24 in England S.E. and 23 in England E. and Ireland S. to 9 in Scotland W. and England N.W., and to 4 in Scotland N. and E.

Barometer and Wind. At the beginning of the week a shallow depression was centred over Ireland, and the winds were extremely light over England, but after this system had moved away to the Atlantic, these islands were mainly under the influence of a large anticyclone having its central area over France and South Germany. The general current of wind was consquently South-Westerly, and on our western and northern coasts, where the conditions were affected by depressions moving eastward from Iceland to northern Scandinavia, it occasionally increased greatly in force. Quite at the end of the period the anticyclone became transferred to Scandinavia, while pressure decreased steadily over south-western and southern Europe. This change brought about an Easterly wind current in England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 36.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Moderate	Light	Light	Light	Very light	Light	Moderate	Very light	Light	Light	Very light	Light
	Sunshine ...	Scanty	Very scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 8 weeks from Dec. 4th, 1910.	Warmth ...	5 * 0	5 * 0	4 * 1	4 * 0	4 * 0	3 * 0	3 * 0	4 * 0	3 * 1	4 * 1	2 * 3	3 * 1
	Rainfall ...	1 * 3	0 * 3	3 * 3	3 * 2	2 * 3	3 * 3	2 * 2	1 * 2	2 * 3	1 * 5	2 * 5	2 * 3
	Sunshine ...	2 * 1	5 * 2	3 * 3	1 * 2	2 * 1	2 * 2	4 * 4	4 * 2	2 * 1	2 * 2	1 * 2	0 * 2

PAST SEASONS.

WINTER, 1909-10. Dec. 5th-March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th-June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th-Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th-Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FOURTH WEEK—January 22nd to January 28th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	32	46·2	37·4	42·0	+ 3·1	12	+ 4	13	− 19	6	0	1·53	− 0·10	2	− 4	4	− 8
Eastern																		
1. SCOTLAND, EAST	53	28	46·3	37·4	42·0	+ 3·4	12	+ 2	13	− 23	5	0	0·33	− 0·28	2	− 10	4	− 18
2. ENGLAND, N.E.	55	25	47·5	38·7	43·3	+ 3·9	23	+13	9	− 21	2	− 1	0·16	− 0·18	7	− 5	13	− 8
3. ENGLAND, EAST	56	28	46·2	36·7	41·7	+ 2·8	12	+ 2	23	− 11	2	− 2	0·04	− 0·34	14	− 1	23	− 2
4. MIDLAND COUNTIES	56	26	47·2	36·9	42·2	+ 3·1	23	+11	14	− 19	1	− 3	0·04	− 0·46	10	− 1	18	− 2
5. ENGLAND, S.E.	53	27	45·7	36·8	41·4	+ 1·1	10	− 3	22	− 3	2	− 1	0·09	− 0·42	14	+ 2	24	+ 3
Western																		
6. SCOTLAND, WEST	54	31	47·7	41·5	44·7	+ 4·0	21	+ 8	1	− 22	5	− 1	0·82	− 0·30	5	− 4	9	− 8
7. ENGLAND, N.W.	55	30	47·6	40·6	44·2	+ 3·9	21	+10	4	− 20	2	− 2	0·15	− 0·60	5	− 5	9	− 8
8 ENGLAND, S.W.	53	28	46·7	39·2	43·1	+ 1·2	19	+ 1	8	− 10	4	− 1	0·21	− 0·64	10	− 3	16	− 5
9. IRELAND, NORTH	54	31	48·9	41·4	45·3	+ 4·2	26	+11	2	− 19	4	− 1	0·46	− 0·35	6	− 5	11	− 8
10. IRELAND, SOUTH	59	26	50·2	41·1	45·9	+ 3·0	31	+ 9	3	− 12	3	− 2	0·12	− 0·72	13	+ 1	23	+ 1
11. ENGLISH CHANNEL	53	37	48·0	42·0	45·2	+ 0·5	22	− 4	0	− 6	4	− 1	0·13	− 0·52	10	− 6	16	− 9

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 8 Weeks, December 4th, 1910 to January 28th, 1911.

0. SCOTLAND, NORTH	54	20	*	*	*	*	104	+ 43	140	−119	48	+ 6	9·29	−1·32	35	− 4	10	− 1
Eastern																		
1. SCOTLAND, EAST	57	16	*	*	*	*	96	+ 38	176	−140	35	+ 2	3·68	−1·29	78	+14	20	+ 4
2. ENGLAND, N.E.	56	20	*	*	*	*	113	+ 47	155	−104	31	+ 3	3·21	−0·43	74	+ 4	18	+ 1
3. ENGLAND, EAST	57	23	*	*	*	*	121	+ 49	176	−121	35	+ 4	4·17	+0·85	78	− 6	18	− 1
4. MIDLAND COUNTIES	57	22	*	*	*	*	121	+ 39	163	−136	33	+ 3	4·10	+0·03	69	− 2	16	0
5. ENGLAND, S.E.	55	21	*	*	*	*	140	+ 30	156	− 62	33	+ 3	5·06	+0·71	85	+ 1	19	0
Western																		
6. SCOTLAND, WEST	54	22	*	*	*	*	122	+ 34	110	− 93	43	+ 5	8·05	−1·04	61	+ 2	15	+ 1
7. ENGLAND, N.W.	57	22	*	*	*	*	119	+ 31	109	− 99	35	+ 2	4·95	−0·79	70	+ 9	17	+ 2
8. ENGLAND, S.W.	55	19	*	*	*	*	147	0	114	− 40	38	+ 3	7·66	+0·27	86	+ 1	19	0
9. IRELAND, NORTH	54	21	*	*	*	*	149	+ 41	107	− 73	39	0	4·77	−1·78	74	+ 2	18	+ 1
10. IRELAND, SOUTH	59	21	*	*	*	*	178	+ 5	112	− 23	40	+ 3	5·81	−1·96	84	− 3	19	− 1
11. ENGLISH CHANNEL	57	32	*	*	*	*	250	+ 20	34	− 16	39	0	5·48	−0·73	98	−11	21	− 2

THE YEAR.—Aggregates, &c., for the Period of 4 Weeks, January 1st to January 28th, 1911.

0. SCOTLAND, NORTH	52	20	*	*	*	*	36	+ 9	85	− 52	21	0	4·33	−0·98	18	− 4	9	− 2
Eastern																		
1. SCOTLAND, EAST	53	16	*	*	*	*	27	− 1	115	− 45	15	− 1	1·37	−0·96	41	+ 5	20	+ 2
2. ENGLAND, N.E.	55	21	*	*	*	*	32	+ 1	105	− 29	13	− 1	1·42	−0·20	40	+ 4	19	+ 2
3. ENGLAND, EAST	56	23	*	*	*	*	16	− 17	128	− 26	15	0	1·65	+0·07	46	+ 1	21	0
4. MIDLAND COUNTIES	56	22	*	*	*	*	27	− 13	116	− 36	11	− 4	0·90	−1·05	39	+ 1	18	0
5. ENGLAND, S.E.	53	21	*	*	*	*	15	− 32	116	− 1	14	0	1·44	−0·60	45	+ 2	20	+ 1
Western																		
6. SCOTLAND, WEST	54	22	*	*	*	*	48	+ 8	76	− 31	16	− 3	2·87	−1·38	34	+ 2	16	+ 1
7. ENGLAND, N.W.	55	24	*	*	*	*	31	− 8	82	− 27	12	− 4	1·25	−1·48	39	+ 6	18	+ 3
8. ENGLAND, S.W.	53	22	*	*	*	*	31	− 36	91	+ 7	14	− 3	1·65	−1·67	51	+ 7	22	+ 3
9. IRELAND, NORTH	54	21	*	*	*	*	53	0	80	− 13	14	− 5	1·82	−1·30	45	+ 8	21	+ 4
10. IRELAND, SOUTH	59	21	*	*	*	*	64	− 18	94	+ 25	15	− 3	1·72	−1·93	50	+ 5	23	+ 2
11. ENGLISH CHANNEL	53	33	*	*	*	*	70	− 31	34	+ 3	16	− 3	1·76	−1·00	47	− 10	20	− 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

‖ Mist.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	*p Baltasound* S	45	24th	32	23rd	40·8	34·5	37·8	—	0	29	6	0·91	—	4·7	—	10	—	*Baltasound.*
	a Sumburgh Head ..	49	24th	32	27th	45·7	34·6	40·4	+ 1·4	10	30	5	1·52	+ 0·64	0·4	− 7·4	1	−15	Deerness.
	a Stornoway	50	24th	36	23rd	47·4	38·3	43·0	+ 3·9	23	10	6	1·01	− 0·10	2·9	− 5·4	6	−10	Stornoway.
	a Castlebay, Barra Isd.	50	26th	39	22nd, 23rd	47·7	41·7	44·8	+ 3·7	21	1	7	0·67	—	2·4	—	5	—	*Castlebay.*
b, Mainland.	a Wick	48	24th, 27th	34	27th	44·3	36·3	40·5	+ 2·4	6	23	6	0·36	− 0·21	*	*	*	*	* *
	p Strathpeffer	50	24th	34	22, 23, 28th	46·8	36·9	42·1	+ 5·1	22	14	6	0·46	− 0·24	0·1	− 8·9	0	−17	Strathpeffer.
	p Glencarron .. 𝔖	48	28th	34	23rd	45·7	37·9	42·0	+ 5·4	10	11	6	3·29	+ 1·12	*	*	*	*	* *
	p Fort Augustus 𝔖	50	26th	36	24th, 28th	46·6	38·3	42·6	+ 4·9	20	10	6	1·21	+ 0·01	4·5	− 0·8	9	− 2	Fort Augustus.
	p Fort William 𝔖	50	26th	35	22nd	46·6	40·2	43·5	+ 4·2	18	5	6	2·89	+ 0·85	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	51	24th	34	28th	47·1	36·4	42·0	+ 3·7	14	16	4	0·28	− 0·20	3·6	—	7	—	*Gordon Castle.*
	a Nairn	48	24, 26, 27, 28	33	28th	46·1	36·7	41·6	+ 4·2	11	23	3	0·35	− 0·08	3·8	—	7	—	Nairn.
	a Aberdeen	48	25th	33	28th	44·4	36·3	40·5	+ 2·7	7	23	4	0·25	− 0·26	1·2	−11·7	2	− 22	Aberdeen.
	a Balmoral .. 𝔖	48	23, 26, 28th	28	28th	46·0	35·0	40·7	+ 6·7	11	29	3	0·20	− 0·48	2·7	—	5	—	Crathes S.
	p Crieff .. .. 𝔖	53	26th	34	22nd	46·7	37·8	42·4	+ 5·2	20	12	6	0·37	− 0·51	1·4	—	3	—	Balruddery
	a Leith	53	25th	35	24th	48·9	40·9	45·1	+ 5·9	26	3	6	0·27	− 0·10	*	*	*	*	Edinburgh.
	p West Linton .. S	50	25th	33	23rd	45·2	37·9	41·7	+ 5·5	9	18	7	0·66	—	2·2	—	4	—	*West Linton.*
	p Marchmont .. 𝔖	53	25th	32	23rd	46·1	38·1	42·3	+ 5·8	18	11	3	0·28	− 0·23	2·3	− 9·1	4	−17	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	54	25th	35	23rd	48·3	40·1	44·4	+ 6·2	25	5	2	0·45	− 0·06	1·1	—	2	—	Cockle Park.
	a Shields	55	25th	25	22nd	49·1	38·1	43·8	+ 5·2	29	11	4	0·23	− 0·11	0·0	− 7·3	0	−13	*Newcastle.*
	p Durham	54	25th	34	22nd, 23rd	47·1	40·0	43·7	+ 6·5	20	6	2	0·24	− 0·10	0·8	−10·4	1	−19	Durham.
	p Rounton .. 𝔐	52	25th	33	22nd	46·4	38·8	42·8	+ 5·8	19	9	2	0·10	− 0·29	*	*	*	*	* *
	p Scarborough .. M	54	26th	35	22nd	?48·6	41·3	45·1	+ 6·6	25	2	3	0·11	− 0·33	9·1	—	16	—	Scarborough.
	p York	54	25th	34	22nd, 24th	48·3	39·9	44·3	+ 6·1	25	6	3	0·22	− 0·15	3·9	− 4·4	7	− 8	York.
b, South.	a Spurn Head	50	28th	32	22nd	45·3	37·3	41·5	+ 2·9	9	20	1	0·08	− 0·19	*	*	*	*	* *
	a Lincoln	53	26th	31	22nd, 24th	47·3	36·3	42·0	+ 4·7	15	16	2	0·02	− 0·34	15·9	—	27	—	Skegness.
	a Fulbeck	52	26th	32	22nd	46·9	36·9	42·1	+ 4·5	22	14	0	0·00	− 0·38	12·7	—	22	—	Rauceby.
															16·7	—	29	—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	54	26th	30	22nd	46·5	36·6	41·8	+ 4·9	13	24	4	0·06	—	15·2	—	26	—	Cromer.
	p Hillington .. 𝔐	53	26th	31	24th	45·8	36·3	41·2	+ 4·1	11	24	2	0·04	− 0·41	11·3	− 0·5	20	− 1	Hillington.
	a Yarmouth	54	26th	32	25th	46·0	36·4	41·4	+ 4·0	11	24	0	0·00	− 0·36	15·6	—	27	—	Yarmouth.
	a Norwich	53	26th	31	24th	45·1	36·7	41·1	+ 3·9	9	22	2	0·04	—	*	*	*	*	* *
	p Geldeston	56	26th	32	24th	47·2	37·3	42·5	+ 4·5	23	13	1	0·01	− 0·33	15·7	+ 2·5	27	+ 4	Geldeston.
b, South.	p Cambridge	55	26th	30	23rd	47·8	36·3	42·3	+ 4·6	26	16	1	0·05	− 0·26	17·5	+ 5·0	30	+ 9	Cambridge.
	a Felixstowe	54	26th	32	24th, 25th	45·7	36·0	41·0	+ 2·7	10	25	2	0·02	—	13·5	—	23	—	*Felixstowe.*
	a Clacton-on-Sea ..	54	26th	32	24th, 25th	45·7	36·1	41·1	+ 2·9	10	25	1	0·02	—	14·4	—	24	—	Clacton.
	a Rothamsted ..	53	26th	28	24th	45·2	34·5	40·1	+ 2·7	9	30	2	0·05	− 0·41	12·4	+ 0·5	21	+ 1	Rothamsted.
	a Shoeburyness ..	52	28th	31	24th	45·3	35·9	40·8	+ 2·3	9	25	1	0·03	− 0·25	12·2	—	21	—	*Southend.*
	p Tottenham	55	26th	34	24th	46·6	39·9	43·4	+ 4·6	19	6	1	0·07	—	6·1	—	10	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	50	26th, 28th	35	23rd	45·7	39·8	42·9	+ 6·1	16	6	3	0·86	− 0·14	1·5	—	3	—	Harrogate.
	a Bawtry	55	28th	31	22nd	48·4	37·7	43·3	+ 5·6	27	12	1	0·02	− 0·35	8·9	− 0·6	15	− 1	Worksop.
	p Buxton .. M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*Buxton.*
	a Nottingham ..	54	26th	29	24th	47·3	36·0	41·9	+ 4·1	15	26	0	0·00	− 0·40	8·9	—	15	—	Nottingham.
	p Birmingham, Edgbsn	55	26th	31	24th	47·1	38·1	42·8	+ 5·1	22	11	0	0·00	− 0·43	13·8	—	24	—	Birmingham.
	a Raunds .. 𝔐	54	26th	29	24th	47·0	35·6	41·5	+ 4·3	14	27	1	0·02	—	*	*	*	*	* *
	a Oxford	55	28th	30	24th, 25th	46·6	36·3	41·7	+ 2·8	13	25	2	0·02	− 0·37	11·4	− 0·6	19	− 1	Oxford.
b, West.	a Cheadle .. 𝔐	50	26th	30	22nd, 24th	45·3	35·1	40·4	+ 3·5	9	28	0	0·00	− 0·54	7·0	—	12	—	Sheffield.
	p Shrewsbury	55	28th	33	24th	49·4	39·2	44·5	+ 6·0	29	8	1	0·03	—	*	*	*	*	* *
	a Hereford .. 𝔐	56	26th	26	24th	48·6	37·2	43·1	+ 4·7	28	13	0	0·00	− 0·50	*	*	*	*	* *
	a Cirencester	53	28th	27	24th	45·7	33·4	39·8	+ 2·3	10	34	1	0·01	− 0·49	13·1	+ 1·1	22	+ 2	Cirencester.
	a Bath	54	28th	27	24th	48·1	37·1	42·8	+ 3·3	26	14	0	0·00	− 0·52	16·9	—	29	—	Bath.
															17·4	—	29	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	51	26th	31	24th	45·9	38·6	42·4	+ 3·4	17	10	1	0·09	− 0·28	13·1	+ 2·9	22	+ 5	Kew.
	a Marlborough ..	53	28th	28	24th	45·9	34·5	40·4	+ 2·9	11	30	2	0·03	− 0·52	14·0	+ 3·6	24	+ 6	Marlborough.
	a Margate	52	26th	33	24th	45·0	37·5	41·4	+ 2·3	8	19	0	0·01 ‖	− 0·35	15·7	+ 3·7	27	+ 6	Margate.
	a Wisley, Surrey ..	53	28th	29	24th	45·4	36·4	41·1	+ 1·7	10	23	1	0·05	—	14·0	—	23	—	Wisley.
	a Swarraton .. 𝔐	52	28th	27	28th	45·2	34·1	39·9	+ 2·3	9	32	2	0·06	− 0·49	13·9	—	23	—	Worthing.
	a Tunbridge Wells 𝔐	50	26th	28	24th	44·1	34·5	39·5	+ 1·8	6	29	1	0·01	− 0·54	12·9	+ 1·4	22	+ 2	Tunbridge Wells.
	a Dungeness	49	28th	27	25th	45·0	35·3	40·3	+ 1·1	8	27	4	0·08	− 0·32	13·4	—	22	—	Littlestone.
	p Hastings	51	28th	35	22, 23, 24th	45·7	39·0	42·5	+ 2·9	16	8	4	0·09	− 0·41	7·0	− 7·7	12	−13	*Hastings.*
	p Southampton ..	52	26th	31	24th	46·7	37·9	42·5	+ 2·3	21	11	2	0·22	− 0·33	12·2	− 0·6	20	− 1	Southampton.
	a Ventnor	51	27th, 28th	37	22nd, 23rd	47·9	40·6	44·4	+ 2·9	23	4	2	0·19	− 0·36	18·3	+ 4·1	31	+ 7	Ventnor.
															16·2	+ 2·6	27	+ 4	Eastbourne.
LONDON .. — ..	*a Westminster* ..	52	26th	33	24th	45·8	37·9	42·0	+ 2·9	11	11	1	0·06	− 0·31	5·3	+ 0·3	9	+ 1	*Westminster.*
	a Greenwich	52	26th	29	24th	45·0	36·9	41·1	+ 2·4	8	21	1	0·05	− 0·30	9·1	− 1·4	15	− 2	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. 𝔖	50	25th, 26th	31	22nd	46·0	40·0	43·1	+ 4·1	16	6	7	1·70	+ 0·69	*	*	*	*	* *
	p Glasgow	52	25th, 26th	36	22nd	47·9	41·9	45·0	+ 6·5	21	0	5	0·83	+ 0·13	2·5	− 3·8	5	− 7	Glasgow.
	p Rothesay .. 𝔖	52	26th	34	22nd	48·4	41·9	45·3	+ 5·8	24	0	7	1·23	+ 0·28	*	*	*	*	* *
	a Kilmarnock	51	25th	34	22nd	47·4	39·6	43·7	+ 4·2	22	7	4	1·13	—	3·2	—	6	—	*Kilmarnock.*
	a Colmonell .. 𝔖	53	25th	38	22nd, 24th	48·5	41·4	45·1	+ 6·0	24	2	5	0·74	− 0·23	*	*	*	*	* *
	p Dumfries .. 𝔖	52	26th	36	23rd	47·3	41·4	44·5	+ 6·1	20	2	5	0·26	− 0·49	1·4	—	3	—	*Dumfries.*
	p Cally, Gatehouse 𝔖	51	26th	37	22nd	47·7	42·9	45·4	+ 7·4	24	0	5	0·48	− 0·52	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	54	25th	39	23rd	48·1	43·0	45·7	+ 5·0	26	0	3	0·15	− 0·62	7·9	− 4·5	14	− 8	Douglas.
															9·2	—	16	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	50	25th, 26th	37	23rd	46·4	41·8	44·2	+ 6·3	16	1	4	0·37	− 0·24	1·6	—	3	—	Aspatria.
	p Newton Rigg ..	53	26th	33	23rd	46·4	38·9	42·8	+ 6·0	19	9	5	0·26	− 0·48	2·7	− 7·5	5	−13	Newton Rigg.
	p Stonyhurst	49	25, 26, 28th	36	23rd	45·9	40·4	43·3	+ 5·4	16	4	3	0·27	− 0·64	0·0	− 9·2	0	−16	Stonyhurst.
	p Blackpool .. M	50	28th	33	23rd	46·0	40·1	43·2	+ 4·5	16	5	3	0·04	− 0·56	2·2	− 7·9	4	−14	Blackpool.
	p M'nch'ster, Prestwich	52	26th	33	24th	46·8	39·2	43·2	+ 5·0	20	8	3	0·12	− 0·55	0·1	− 5·6	0	−10	*Prestwich.*
	a Liverpool (Bidston)	54	25th	30	22nd	49·3	39·6	44·6	+ 4·8	28	7	0	0·00	− 0·47	9·2	—	16	—	*Liverpool.*
	a Hawarden Bridge ..	55	28th	32	22nd	50·4	40·6	45·7	+ 5·5	32	4	0	0·00	− 0·37	3·5	− 7·0	6	−12	*Southport.*
															15·4	—	27	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	54	28th	36	23rd	49·3	42·5	46·0	+ 4·6	28	0	1	0·06	− 0·49	16·2	+ 4·2	28	+ 7	Llandudno.
	a Holyhead	51	25th	40	23rd	47·9	43·1	45·6	+ 4·0	25	0	1	0·07	− 0·57	4·2	—	7	—	Aberdovey.
	p Bettws-y-Coed ..	51	28th	31	23rd	47·6	39·7	43·8	+ 3·3	22	6	4	0·28	—	5·2	—	9	—	Bettws-y-Coed.
															7·0	—	12	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	48	25th, 28th	32	23rd	45·4	38·0	41·9	+ 4·4	10	18	5	0·46	—	4·4	—	8	—	Llangammarch Wells.
	a Pembroke	49	25th	39	24th	47·7	42·7	45·3	+ 2·8	23	0	4	0·35	− 0·37	12·7	− 0·7	22	− 1	Pembroke.
	p Cardiff	53	28th	33	24th	46·1	39·1	42·7	+ 3·0	17	8	5	0·16	− 0·62	8·7	—	15	—	*Cardiff.*
															—	—	—	—	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	50	25th, 28th	32	24th	46·3	39·7	43·1	+ 3·4	17	6	3	0·03	− 0·57	16·4	—	28	—	*Clifton.*
	a Shaftesbury .. 𝔐	51	28th	33	22nd	44·6	36·5	40·7	+ 3·0	7	22	2	0·15	− 0·43	*	*	*	*	* *
	a Arlington	49	28th	32	23rd, 24th	46·3	37·0	41·8	+ 2·6	12	22	5	0·43	− 0·57	13·2	− 0·1	22	0	Newquay.
	a Cullompton .. 𝔐	53	28th	28	24th, 25th	47·3	36·7	42·2	+ 2·3	24	15	4	0·14	− 0·56	10·0	− 1·5	17	− 3	Cullompton.
	a Portland Bill ..	52	28th	36	24th	47·6	4[illegible]	44·5	+ 2·8	21	3	2	0·16	—	15·4	—	26	—	*Weymouth.*
	p Plymouth	50	23, 24, 25th	30	24th	48·3	40·3	44·5	+ 2·3	25	5	4	0·15	− 0·58	6·4	− 6·3	11	−10	Plymouth.
	p Falmouth	49	25th	37	23rd, 24th	47·6	41·2	44·5	+ 1·2	21	2	3	0·07	− 0·84	13·8	− 0·2	23	0	Falmouth.
															16·0	+ 1·5	27	+ 3	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	52	28th	37	23rd	48·0	41·4	44·8	+ 3·9	22	2	4	0·25	− 0·33	*	*	*	*	* *
	a Blacksod Point ..	51	25th, 28th	38	23rd	49·1	43·6	46·5	+ 4·0	32	0	6	1·20	+ 0·14	*	*	*	*	* *
	p Markree Castle ..	54	25th	35	22nd, 23rd	50·0	41·4	45·9	+ 6·4	30	2	6	0·77	− 0·04	8·0	− 2·5	14	− 4	Markree Castle.
	a Birr Castle	53	25, 27, 28th	31	23rd	50·1	39·1	44·8	+ 5·0	32	8	2	0·06	− 0·54	10·9	− 1·6	19	− 8	*Birr Castle.*
b, East.	p Armagh	52	25th, 28th	33	23rd	48·3	41·4	45·0	+ 5·3	24	2	8	0·23	− 0·33	3·3	− 8·1	6	−14	Armagh.
	a Donaghadee	52	25th, 28th	36	24th	48·9	41·3	45·3	+ 4·8	26	2	4	0·23	− 0·36	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City	55	25th	34	23rd	49·9	42·8	46·5	+ 4·8	32	0	2	0·04	− 0·46	18·7	+ 4·5	32	+ 8	Phœnix Park.
	a Kilkenny	55	25th	26	23rd	49·9	39·4	44·9	+ 4·7	31	7	2	0·05	− 0·69	*	*	*	*	* *
	a Waterford	51	25th, 26th	29	23rd	49·3	40·4	45·0	+ 3·8	28	4	1	0·04	− 0·84	*	*	*	*	* *
b, West.	a Birr Castle	53	25, 27, 28th	31	23rd	50·1	39·1	44·8	+ 5·0	32	8	2	0·06	− 0·54	10·9	− 1·6	19	− 8	Birr Castle.
	a Foynes	54	25th	37	23rd	51·5	42·1	47·0	+ 4·9	35	0	3	0·04	− 0·76	*	*	*	*	* *
	a Cahir .. .. 𝔐	55	26th	28	23rd	50·2	39·7	45·2	+ 4·0	32	6	2	0·05	—	*	*	*	*	* *
	a Killarney	59	25th	35	23rd	51·4	42·1	46·9	+ 4·5	34	0	3	0·19	− 1·18	*	*	*	*	* *
	a Valencia	53	27th	33	23rd	50·6	41·7	46·3	+ 1·9	31	1	7	0·44	− 0·80	13·2	+ 0·5	22	+ 1	Valencia.
	a Roche's Point ..	52	25th	35	23rd, 24th	49·3	42·7	46·1	+ 2·7	29	0	5	0·15	− 0·85	10·4	—	17	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	53	26th	41	22nd	50·3	43·3	46·9	+ 1·4	34	0	4	0·07	− 0·61	14·4	− 0·6	24	− 1	Scilly.
	a Jersey, St. Aubins ..	49	23, 25, 26th	37	22nd	46·7	41·4	44·2	+ 1·6	18	2	4	0·12	− 0·54	3·0	−13·5	5	−22	St. Heliers.
	a Guernsey	49	23rd	38	22, 23, 24th	47·1	41·4	44·4	+ 1·1	19	2	5	0·20	− 0·50	12·6	− 0·8	21	− 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 11·4 hrs. (– 1·0 hrs.), 19 % (– 2 %); Bournemouth, 17·2 hrs., 30 %; Bognor, 15·4 hrs., 26 %.* For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound ..	—	—	38·6	—
	— — ..				
	— — .				
1.	Aberdeen	—	—	—	39·5
	Crathes	3	22	35·5	38·1
	Balmoral .. .	1	25	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	31	38·0	—
2.	Cockle Park	2	30	39·9	39·8
	Durham	1	28	—	—
	York	—	—	39·2	41·5
	Hull	3	26	38·6	42·0
	Lincoln	—	—	37·1	40·0
	Rauceby	3	22	39·2	42·1
3.	Norwich	2	25	—	—
	Yarmouth	—	—	38·0	41·1
	Lowestoft	0	31	39·0	41·3
	Cambridge	2	25	39·3	41·9
	Clacton-on-Sea ...	2	26	40·4	43·6
	Southend	3	24	39·7	—
	Tottenham	2	29	—	43·0
4.	Harrogate	0	31	39·4	40·2
	Huddersfield ..	0	31	39·1	41·0
	Buxton	—	—	—	—
	Sheffield	2	27	38·0	41·1
	Nottingham.. ..	2	28	38·7	39·3
	Birmingham.. ..	1	27	40·7	43·9
	Oxford	3	26	—	—
	Hereford	1	22	—	—
	Cirencester	2	28	39·6	41·6
	Bath	—	—	40·0	42·0
5.	Margate	0	31	39·7	42·0
	Greenwich	3	24	—	—
	Westminster ..	2	27	—	—
	Kew	2	23	39·6	42·8
	Canterbury	3	28	39·2	43·0
	Tunbridge Wells ..	3	20	38·8	—
	Wisley	1	26	39·7	42·0
	Worthing	2	27	40·2	43·9
	Portsmouth	2	26	41·5	44·0
6.	Glasgow	1	30	—	—
	Rothesay	—	—	—	42·6
	Colmonell	0	35	—	—
6.	Dumfries	0	34	41·3	41·1
	Douglas	0	32	—	—
7.	Aspatria	0	35	41·5	42·8
	Newton Rigg ..	4	28	40·9	41·0
	Burnley	0	31	40·0	41·1
	Southport	2	27	39·8	41·0
	Manchester City ..	0	33	40·3	42·3
	Bettws-y-Coed ..	1	30	40·9	44·0
8.	Llangammarch Wells	2	24	41·2	44·0
	Cardiff	1	29	40·3	42·1
	Clifton	1	28	—	—
	Plymouth	2	25	42·1	—
9.	Armagh	1	30	42·2	43·6
	Markree	0	32	43·2	44·8
10.	Dublin, Trin. Coll. ..	1	21	41·2	43·1
11.	Guernsey, Brooklyn	2	28	43·6	45·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·7
	Kirkwall	43	40	41·2
	Wick	44	43	43·3
SCOTLAND, E.	Cromarty	39	36	38·0
	Pennan Bay	41	39	40·0
	Aberdeen, Cove Bay ..	42	40	40·9
ENGLAND, N.E.	Burnmouth, Berwick ..	40	39	39·4
	Scarborough	44	40	41·9
ENGLAND, E.	Shipwash Lightship ..	43	40	40·7
	Margate‡	41	40	40·4
ENGLAND, S.E.	Eastbourne‡	43	40	41·4
SCOTLAND, W.	Lamlash	45	45	45·0
	Ballantrae	43	42	42·7
ENGLAND, N.W.	Port Erin	47	46	46·6
ENGLAND, S.W.	Newquay	46	46	46·0
	Scilly	49	47	47·9
	Plymouth‡	47	47	47·2
	Salcombe	47	46	46·4
IRELAND, N.W.	Sheephaven	47	44	45·1
	Teelin	46	43	44·4
IRELAND, S.W.	Cleggan	46	45	45·4
	Seafield	47	44	45·9
IRELAND, E. ..	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it i so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

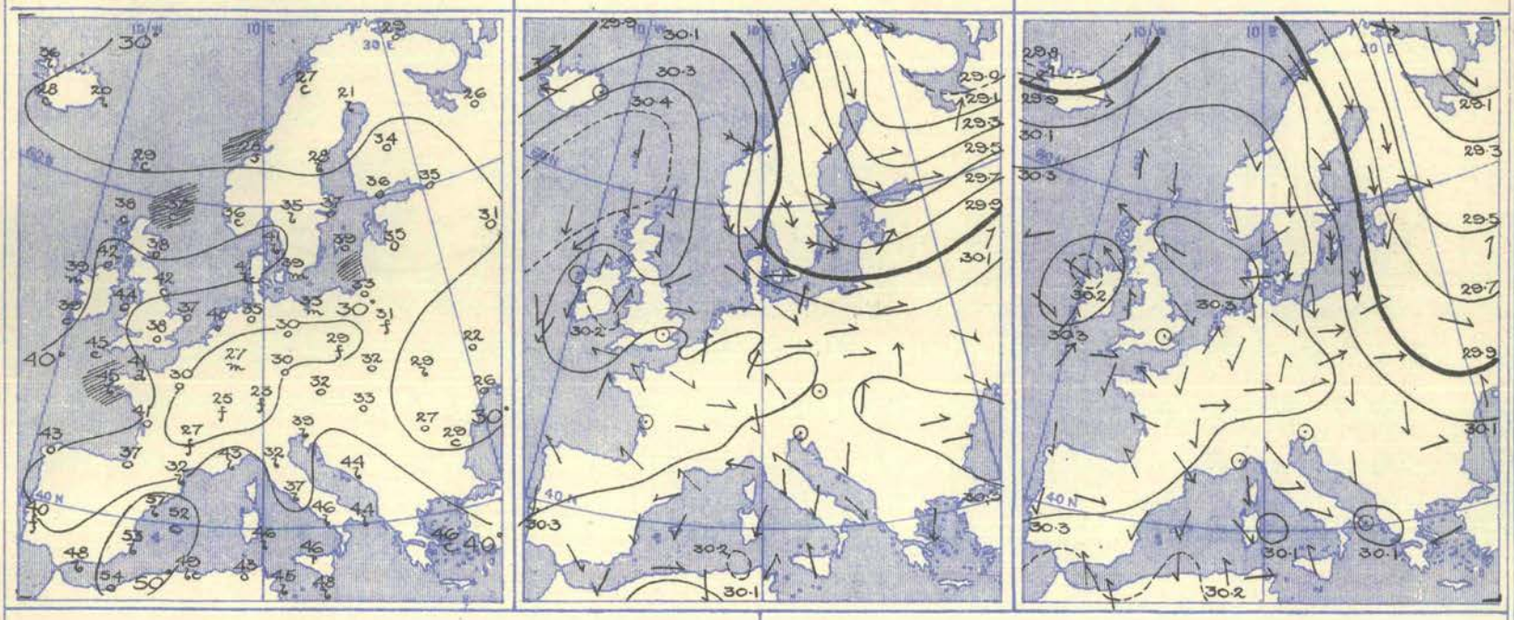
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 22nd January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning very cloudy or overcast in most parts of these Islands, with rain in a few localities. Much cloud prevailing over France and Central Europe and also in Russia, but fair to fine conditions general elsewhere. A good deal of mist during day in England, and rain in most parts of these Islands within the twenty-four hours; a little rain falling at some places on the Continent, and about 0·8 in. at Palma.

Temperature changed rather irregularly, but fallen in most regions. Morning readings ranging from below 32° at most stations over the mainland of the Continent to 40° or above in the west and south-west of these Islands, and to above 45° at a few places on the shores of the Mediterranean. Maxima during day about 40° over a wide area in Britain, but below 32° in eastern and central France and in various parts of Germany. Thermometer rising to nearly 60° on the Riviera and the north coast of Africa.

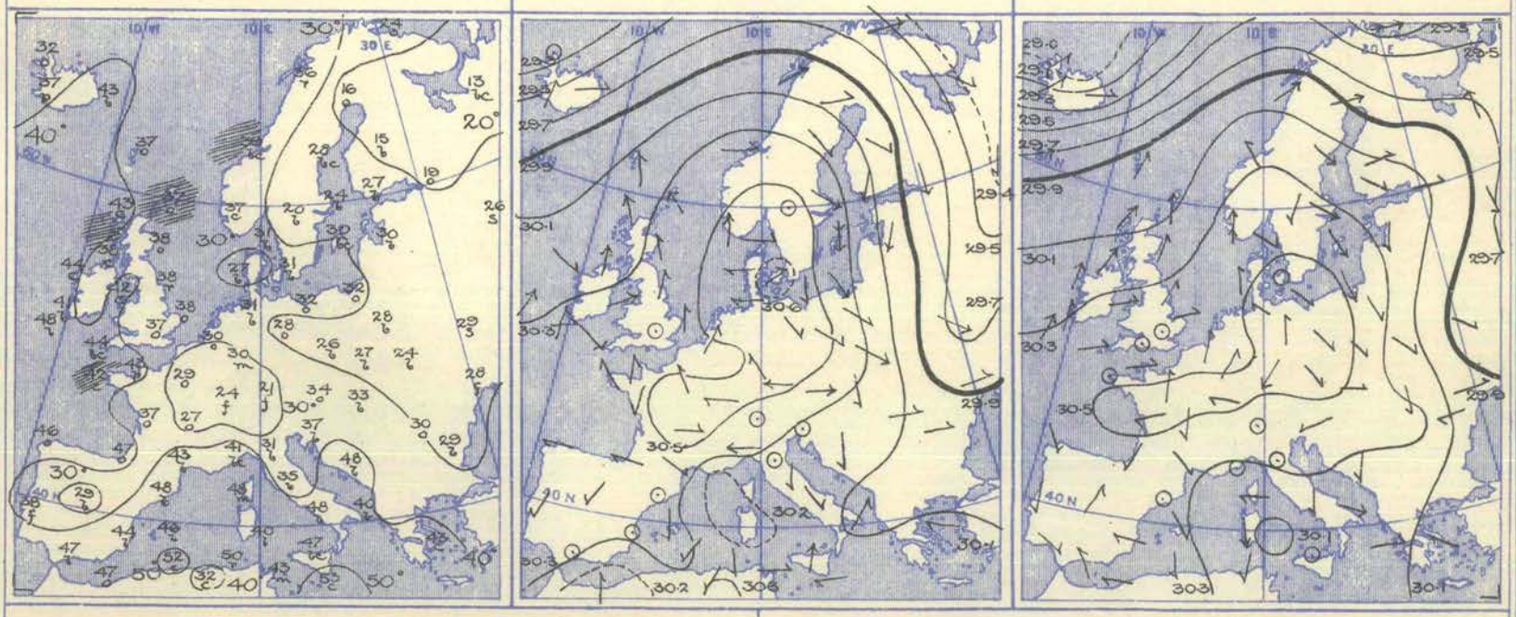
Wind in morning strong to a gale from the South-Westward in Iceland, and from the North-Westward in Scandinavia. A complete cyclonic movement of little force prevailing in these Islands, and light to moderate breezes from some Northerly point over the Mediterranean and Italy, Gales subsiding in Norway, but extending to the Baltic and the North German coast. No important change elsewhere.

Barometer in morning above 30·4 ins. between the Hebrides and Iceland, and nearly as high over France and the south-east of Europe. Below 30·2 ins. in a shallow depression centred over Ireland, and below 29·0 ins. in a large system over the White Sea and its vicinity. Pressure decreasing briskly during day in the Icelandic region, and increasing decidedly in Norway. No great change taking place in the general distribution on the Continent. Irish depression moving slowly North-Westwards.

Monday, 23rd January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine in places, but generally cloudy to overcast in these Islands and the northern half of the Continent, with rain or snow in some localities. Fine and bright over the major portion of the Mediterranean, but rainy at Cape de Garde. Rain experienced later over a considerable portion of this country, as well as in some regions on the Continent, but measurements small generally.

Temperature fallen in most regions. Morning readings ranging from 53° at Malta and 52° at Algiers to below 32° over most of the mainland of the Continent, to 21° at Munich, and to below 20° in Finland. Maxima during day again below 40° in many English localities, and below 32° in the east of France and at some stations in central Europe. Thermometer rising to about 54° on the Riviera and in various parts of southern Italy, and to 60° or rather above at Malta and Malaga, and also at Tunis. Frost at night in the southern half of England.

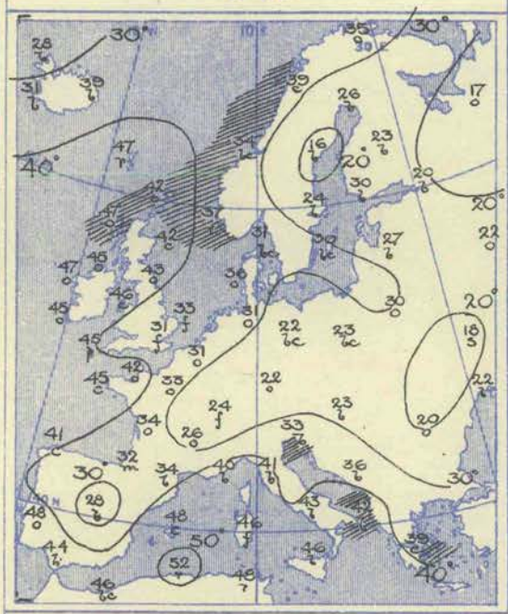
Wind in morning showing a very extensive anticyclonic circulation over the northern and central countries, as well as over the Bay of Biscay region. A Southerly current tending to increase over the north-west of our area. Light variable airs prevalent over the south of Europe and the Mediterranean. Becoming strong from the South-Westward later in Iceland and fresh on our extreme north-wests coasts; blowing a gale from South or South-West at Skudesnaes and Bodo, as well as at Vardo.

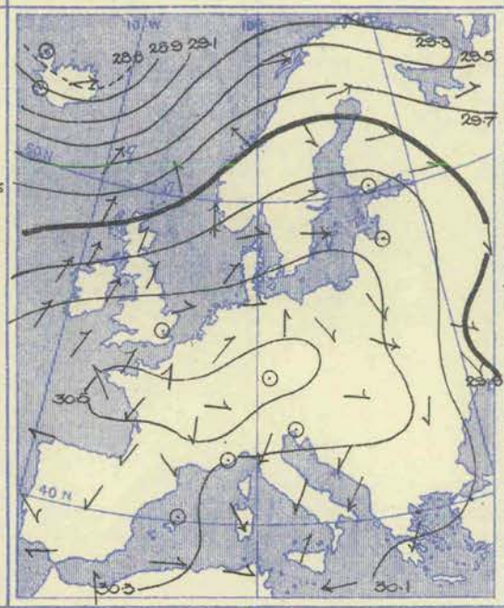
Barometer in morning 30·5 ins. to 30·6 ins. in a large anticyclone centred near Copenhagen. Below 29·3 ins. in a depression to the westward of Iceland, and below 30·2 ins. in a very shallow system over the Mediterranean. Pressure giving way decidedly later in day in the north of Britain and in Norway, and quickly over Iceland. Anticyclonic system moving a little to the southward and decreasing slightly in intensity.

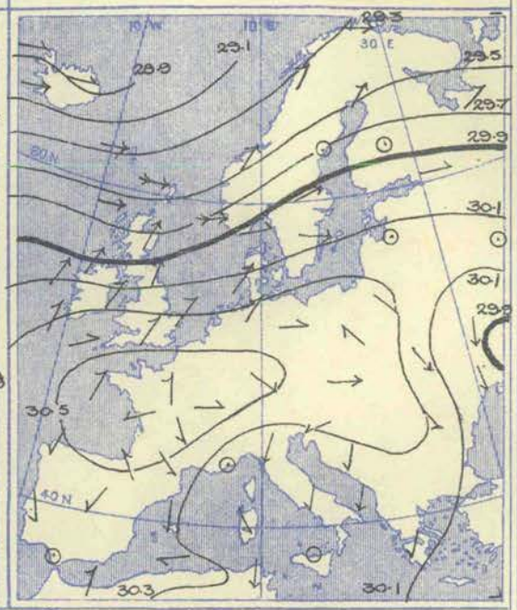
Tuesday, 24th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fine and bright in Iceland and in many parts of northern and southern Europe, cloudy or dull over our Islands generally and the nearer regions of the Continent; rain falling in Faeroe and in Western Norway and snow at Frankfort and Kieff, misty or foggy in the south and east of England. Showers during day in most parts of the British Islands and rain or snow in Scandinavia, and locally in other continental countries.

Temperature risen over Ireland, Scoland and Wales, fallen over the greater part of England; changed irregularly on the Continent as a whole but fallen in Germany and south-eastern Europe. Morning readings ranging from below 20° over southern Russia, and below the freezing point over the major portions of the Continent and over southern England to about 45° on our northern and western coasts and over the Mediterranean generally and to 52° at Algiers and 55° at Malta. Rising to between 45° and 50° in most parts of the British Islands during day and to between 55° and 61° over the Mediterranean and Algeria.

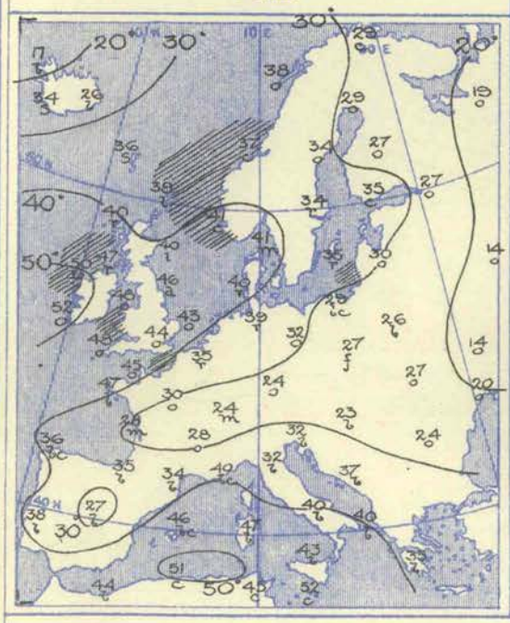
Wind in morning Southerly to South-Westerly over our Islands and north-western Europe generally, strong or high at some of our own north-western stations and in Faeroe, a gale at Skudesnaes; Westerly to North-Westerly light in force generally over Sweden, Poland, Russia and Austria; light from the North-Eastward over most of the southern and Mediterranean countries. Veering to the Westward during the day in Scotland and increasing to a gale in Shetland, no material change elsewhere.

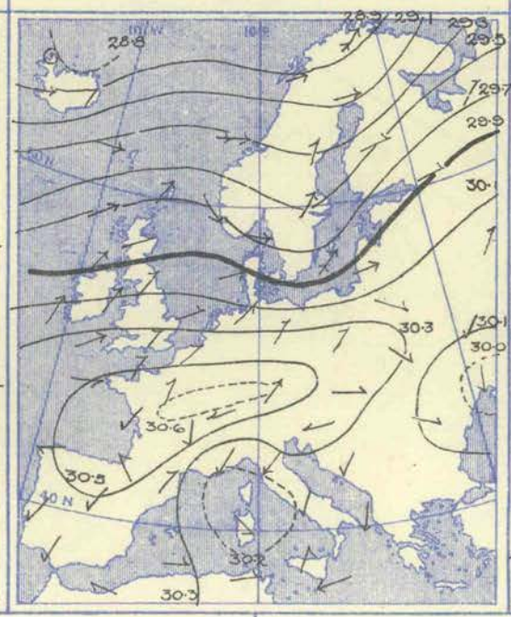
Barometer in morning 30·4 ins. to 30·5 ins. and upwards in a large area of high pressure extending from the Azores across the Bay of Biscay to the south of England, France and Germany; 29·6 ins. to 29·9 ins. in a depression over southern Russia, and 28·8 ins. in a deep cyclonic system in the Icelandic region. Both disturbances moving Eastwards during day, little other change.

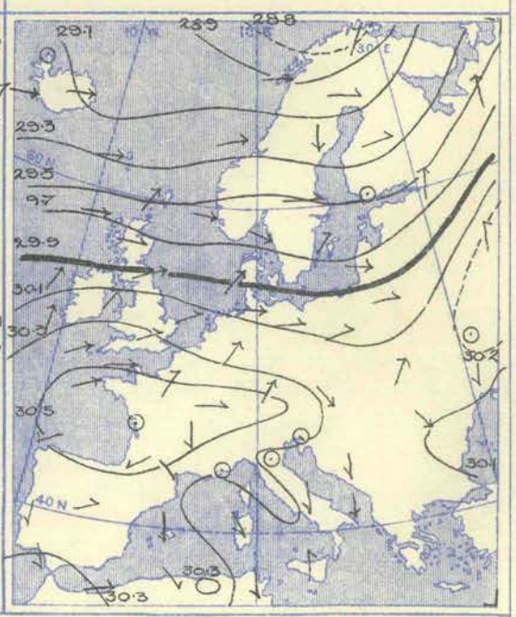
Wednesday, 25th January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning mostly very cloudy or dull over the northern half of our area, with showers at a few of our own stations, and rain or snow over a large portion of central Europe; fine and bright at many stations in Scandinavia and Finland. Generally fair to fine over the Mediterranean region, but rainy at Algiers. Slight rain experienced later in various parts of these Islands, and rain or snow over large districts in the central and northern countries of the Continent.

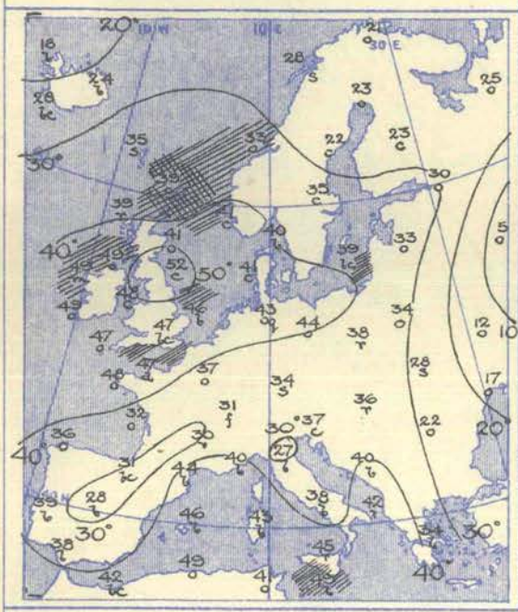
Temperature risen over the major portion of our area, fallen in the far south. Morning readings above 50° in the south-west of Ireland and at some places on the shores of the Mediterranean, but below 32° over most of the mainland of the Continent, and below 20° in Russia. Rising later to 59° at some Algerian stations and to 61° at Malaga, but remaining below 50° in Italy and nearly the whole of France. Maxima as high as 55° in several parts of England, and 56° at Rhyl.

Wind in morning mainly South-Westerly throughout north-western and northern Europe; fresh or strong on our western coasts, and strong to a gale over Scandinavia and the Baltic. A cyclonic circulation of little strength prevailing over the Mediterranean and southern Europe. Increasing to a gale during day at Malin Head, and also at Lemberg, but decreasing in force on the Baltic and in Scandinavia.

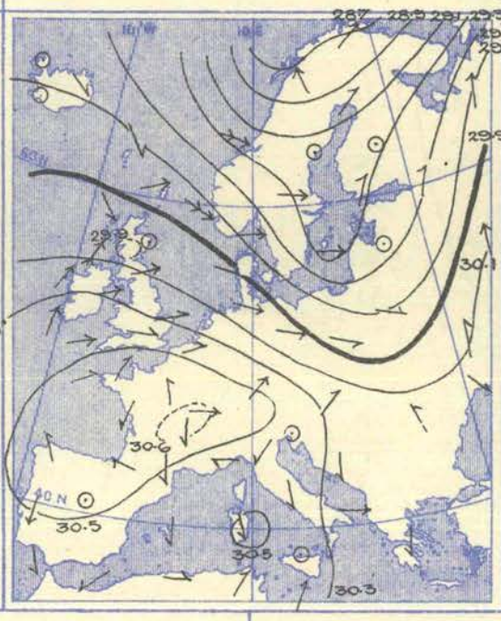
Barometer in morning above 30·5 ins. in the central portion of an anticyclone over the Bay of Biscay and France; below 29·0 ins, between the north of Scandinavia and Iceland, and relatively low in shallow depressions in the south and south-east of our area. No change of importance occurring later in day in the general distribution of pressure; barometer rising briskly in Iceland, and falling in Scandinavia and Finland.

Thursday, 26th January, 1911.

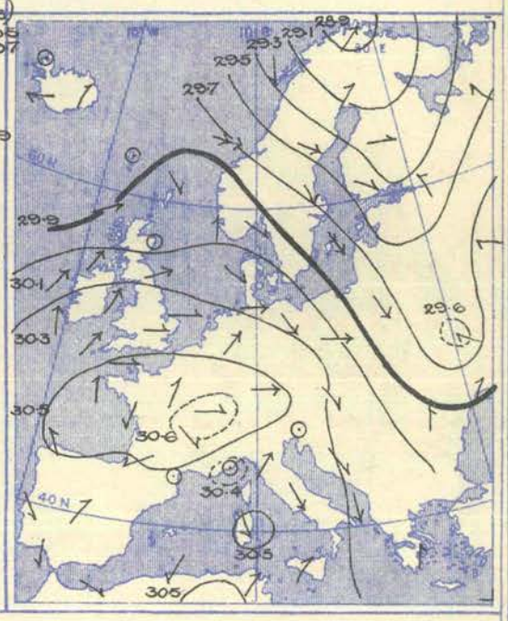
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast generally in these Islands and northern and central Europe, with rain or snow in places over a wide area on the Continent, and rain at a few of our own stations. Fine and bright over the Mediterranean. Rain later in the north and extreme west of our Islands, and rain or snow over a large area in central Europe and Russia.

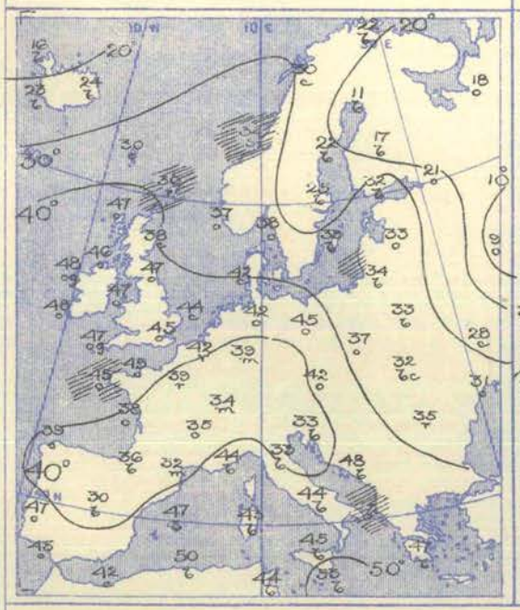
Temperature changed rather irregularly; risen over central Europe and France. Readings in morning above 50° at some of our own stations; below 40° over most of the Continent, and below 32° over a large area in the north and east. Maxima during day 56° at Rhyl and Colwyn Bay and above 50° in many other parts of these Islands. Below 50° over the greater portion of France and Italy, but above 55° at a few stations on the shores of southern Europe, and about 60° in Algeria and at Athens.

Wind in morning mainly from some Westerly point over these Islands and northern and central Europe, strong to a gale in the north of Ireland, and also along the west coast of Norway; high winds from the Southward prevailing at Moscow and Archangel. Light, variable wind general over the south of our area. Increasing to a gale from North-West later on the Baltic and North German coast. Gale continuing until night on the north coast of Ireland, and increasing in force at Main Head.

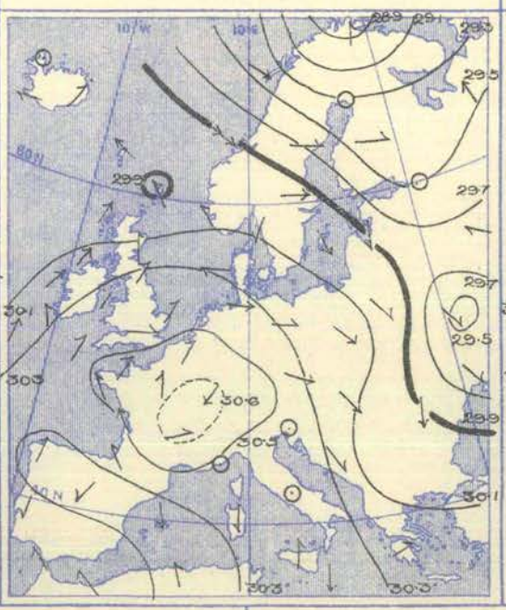
Barometer in morning ranging from above 30·5 ins. over the Bay of Biscay and France to below 28·7 ins. in the extreme north-west and north of Scandinavia. A very small disturbance shown over Scotland. A well-marked minimum developing over Little Russia by evening. A small depression appearing, apparently from the westwards, off the north of Scotland during night. Pressure continuing to increase in Iceland.

Friday, 27th January, 1911.

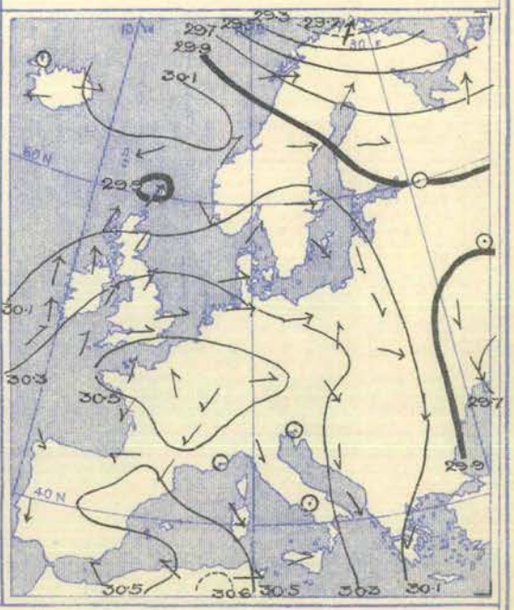
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast generally, but fine in Sweden and over a considerable portion of the Mediterranean region. Rain falling in Shetland, and rain or snow in some localities scattered over a wide area on the Continent. Some rain later in parts of Ireland and Scotland, rain or snow in Scandinavia, and rather large amounts of rain at Swinemünde and Breslau.

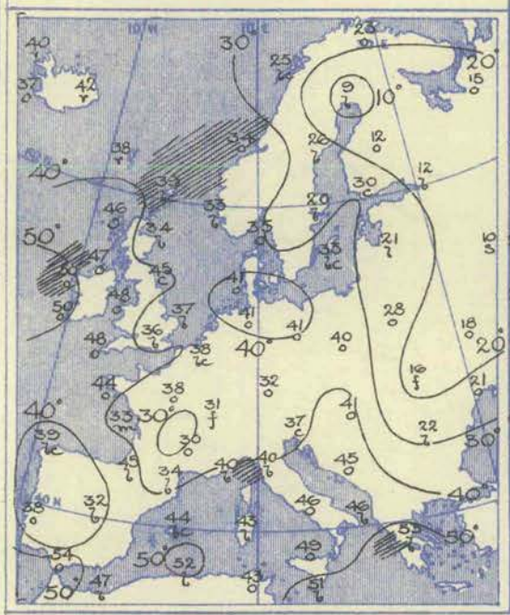
Temperature fallen in most regions. Morning readings ranging from 50° at a few stations in the extreme south of our area and a very little lower in many parts of these Islands to below 32° in the east and north generally, and to 9° at Moscow. Maxima during day between 45° and 50° over the British Islands, between 40° and 45° over a large area in central Europe and the adjacent portion of France, above 50° on the Riviera and in southern Italy, 59° at Barcelona, and a few degrees above 60° at some Algerian stations and at Athens.

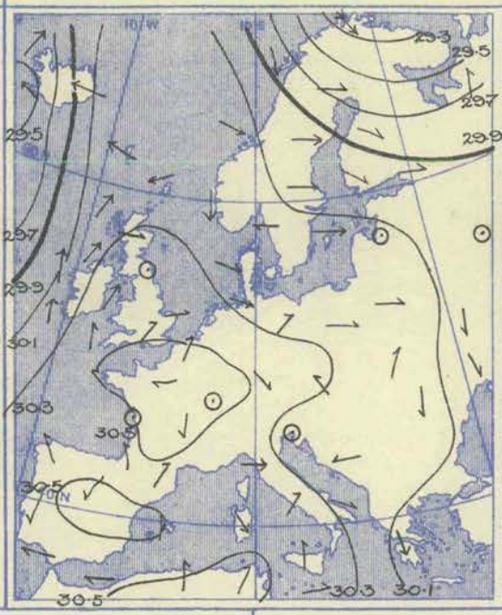
Wind in morning showing an anticyclonic circulation over France and the surrounding countries, and cyclonic movements elsewhere. A high wind or gale from the Westward prevailing on the west coast of Norway and a high wind from West at Lemberg. No great change later, but gales subsiding on the Continent. Wind becoming high from South-West in Shetland by evening, and from North-West on the north shore of the Black Sea.

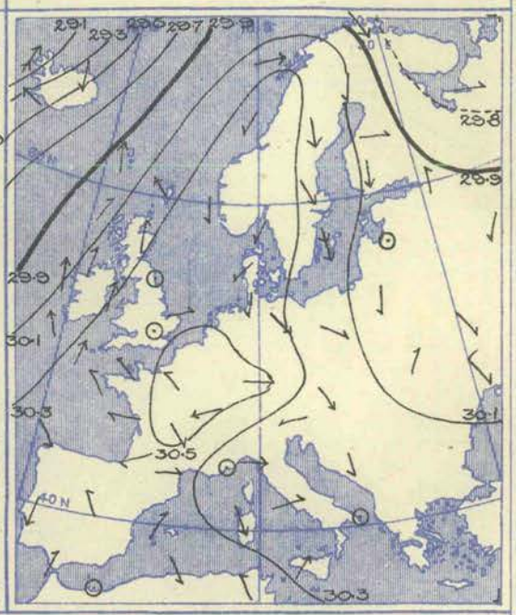
Barometer in morning above 30·6 ins. in central France; below 28·9 ins. in a depression in the extreme north of our area, and relatively low in other systems; one over Shetland, and the other in the south-east of Europe. Changes in pressure rather slight subsequently, and little modification occurring in the general distribution.

Saturday, 28th January, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fine and bright in Scotland, Sweden and the south of our area; generally overcast or very cloudy elsewhere, with rain at some of our extreme north-western stations, as well as at Frankfort and San Fernando. Some rain later in various parts of Scotland and Ireland, and snow over a wide area in central Europe. Heavy rain falling at Malaga and Gibraltar. Local fogs in the south-east of England.

Temperature fallen in most regions. Morning readings ranging from about 50° at some stations in the extreme south and also on the west coast of Ireland to about 40° over a large area in England and central Europe to below 20° over the greater part of Russia, and to 9° at Haparanda, and 5° at Kharkoff. Rising during day to above 50° in many parts of the United Kingdom, but falling to below 32° in several localities at night. Maxima about 60° on some shores of the Mediterranean, but only 52° at Nice and Marseilles, below 40° over a large portion of France, and below 32° in northern and eastern Europe.

Wind in morning strong from the Southward on the west coast of Ireland and the adjacent part of the Atlantic, and strong to a gale from the Southward or South-Eastward in Iceland. A gale from North-West prevailing at Vardö, and light or moderate winds from West or North-West over Scandinavia generally. Rather variable winds of little force general in the Mediterranean region. Increasing in force from the Southward later in the west and north of Ireland, and blowing a gale on the north-west coast. A gale from the North-Westward springing up at Wisby.

Barometer in morning ranging from above 30·5 ins. over France to below 29·3 ins. in the far north of Scandinavia, and to below 29·5 ins. in the south-west of Iceland. Pressure decreasing quickly during day in Iceland and slightly in the west of these Islands. A decided increase of pressure setting in over Denmark and Scandinavia, and a decrease beginning in south-western Europe.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	Jan. 24th, 3.15 p.m. to 4.15 p.m.	Pyrton Hill, Oxon, 150 m	Temperature Humidity .. Wind .. .	279·5° 80% 225°, 13	278·0° 80% 225°, 13	277·5° 90% 240°, 16	273·5° 100% 250°, 17	275·0 30% 270°, —			1,550	Inversion 2·5° at 1,300 m. Clouds at 900 m.
2	Jan. 25th, 10.56 a.m. to 11.40 a.m.	—	Temperature Humidity .. Wind	280° 90% 225°, 11	279·5° 90% 225°, 17	278.0° 100% 250°, 21					277·5° 100% 260°, 23 — 750	
3	Jan. 26th, 9.45 a.m. to 10.30 a.m.	—	Temperature .. Humidity .. Wind	282·0° 90% 250°, 7	281·5° 90% 250°, 14	278·5° 100% 270°, 14	282·5° 30% 290°, 20				1,000	Very sharp inversion at 900 m. with increasing wind above Clouds not reached.
4	Jan. 26th, 10.0 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	280° 100% 270°, 7·2	280° 95% 280·5°, 9	276 5° 95% ?°, 10	283° 27% 330°, 14					Overcast mist and haze. Send at 100 m. Wind direction at 1000 m. by wire.

APPARATUS USED IN THE KITE ASCENT.

No. of Ascent.	1	2	3	4
No. of Kites..	1	1	1	1
Area of Surface (sq. metres) ..	7	4	4	5·5
Capacity of Balloon (cub. metres	—	—	—	—
Length of Wire (metres)	2,300	750	1,200	1,800

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

41

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 5. FIFTH WEEK, SUNDAY, JANUARY 29TH, TO SATURDAY, FEBRUARY 4TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was fair or fine over the Kingdom generally, but mist or fog prevailed at times in most districts. Aurora was observed at Gordon Castle on January 31st.

Temperature was a little above the average in Scotland N., but below it elsewhere, the deficiency being large in most districts; over the central and southern parts of England it amounted to between 5° and 6°. The highest of the maxima were recorded at most stations on January 29th or 30th, and ranged from 51° in Scotland W. and Ireland S. to 46° in the Midland Counties and England N.W. About the middle of the week the maximum readings over a large area were not much above 32°. The absolute minima occurred most commonly on February 1st or 2nd and were low in all districts. In Scotland E. (at Balmoral on the 2nd) the thermometer fell to 11° and in England S.W. (at Llangammarch Wells on the 1st) to 13°, while elsewhere the readings varied between 14° in Scotland N. and the Midland Counties to 19° in England N.E., and to 29° in the English Channel. The lowest readings on the grass were 1° at Llangammarch Wells, 6° at Birmingham, 7° at Newton Rigg, 8° at Balmoral, and 9° at Rauceby.

Mean Temperature of the Sea. On nearly all parts of the coast except the south-west of England and off Sussex the water was less cold than during the corresponding week of last year. The means for the week varied from about 46½° at Scilly and Plymouth, and 45° at Sheephaven and Port Erin, to about 40° along the east coast of Britain generally and to 38½° at Cromarty and also at Eastbourne.

Rainfall. Slight amounts were experienced early in the week in some Irish localities, and later in some parts of England but over a large portion of the Kingdom the period was rainless.

Bright Sunshine exceeded the normal in all districts except Scotland W., the excess being considerable in many localities. The percentage of the possible duration ranged from 45 in the English Channel, 41 in England S.E., and 39 in England S.W. to 26 in Ireland N. and to 20 in Scotland N. and W.

Barometer and Wind. The general distribution of pressure was anticyclonic, the central area of the system being over Scandinavia or Denmark early in the week, subsequently over these islands, and finally over our north-western districts and the adjacent part of the ocean. The wind, after being Easterly for a time over England, South-Easterly in Ireland, and Southerly in the north of Scotland, became very light and rather variable, but later in the week it blew a light to gentle breeze from North-West in Scotland, and from North or North-East in England and Ireland.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 36.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very light	Nought	Very light	Light	Very light	Very light	Very light	Nought	Nought	Very light	Very light	Nought
	Sunshine ...	Abundant	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Moderate	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 9 weeks from Dec. 4th, 1910.	Warmth ...	5 * 0	5 * 1	4 * 2	4 * 1	4 * 1	3 * 1	3 * 1	4 * 1	3 * 2	4 * 2	2 * 4	3 * 2
	Rainfall ...	1 * 4	0 * 4	3 * 4	3 * 3	2 * 4	3 * 4	2 * 3	1 * 3	2 * 4	1 * 6	2 * 6	2 * 4
	Sunshine ...	3 * 1	5 * 2	3 * 3	2 * 2	3 * 1	3 * 2	4 * 4	5 * 2	3 * 1	2 * 2	2 * 2	1 * 2

PAST SEASONS.

WINTER, 1909-10. Dec. 5th–March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTH WEEK—January 29th, to February 4th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.		′	%	%
0. SCOTLAND, NORTH	50	14	43·5	33·8	38·7	+ 0·8	4	− 3	30	− 7	1	− 5	0·01	−1·42	11	+ 3	20	+ 5
Eastern																		
1. SCOTLAND, EAST	50	11	42·3	29·0	35·7	− 2·1	1	− 8	46	+ 5	0	− 4	0·00	−0·57	15	+ 1	27	+ 2
2. ENGLAND, N.E.	50	19	41·4	31·0	36·2	− 3·0	0	−10	41	+ 10	1	− 4	0·01	−0·35	16	+ 2	27	+ 4
3. ENGLAND, EAST	50	16	40·0	28·4	34·3	− 4·6	0	−10	54	+ 20	2	− 2	0·06	−0·32	22	+ 6	36	+ 9
4. MIDLAND COUNTIES	46	14	40·1	27·1	33·6	− 5·5	0	−12	59	+ 25	1	− 3	0·01	−0·50	16	+ 3	27	+ 5
5. ENGLAND, S.E.	49	16	29·8	29·4	34·7	− 5·7	0	−14	51	+ 26	1	− 4	0·02	−0·51	25	+ 11	41	+18
Western																		
6. SCOTLAND, WEST	51	18	41·1	29·4	35·3	− 4·6	0	−12	47	+ 20	1	− 3	0·01	−1·02	12	0	20	0
7. ENGLAND, N.W.	46	17	40·4	29·7	35·0	− 5·0	0	−11	49	+ 24	0	− 5	0·00	−0·70	19	+ 8	32	+14
8 ENGLAND, S.W.	47	13	40·9	31·3	36·1	− 5·5	0	−17	41	+ 21	0	− 5	0·00	−0·82	24	+ 10	39	+17
9. IRELAND, NORTH	48	18	42·5	32·1	37·3	− 3·4	1	−13	35	+ 12	1	− 4	0·01	−0·76	16	+ 4	26	+ 6
10. IRELAND, SOUTH	51	18	43·2	32·6	37·9	− 4·5	3	−18	34	+ 17	1	− 3	0·01	−0·81	20	+ 6	32	+ 9
11. ENGLISH CHANNEL	49	29	44·4	35·9	40·1	− 4·3	7	−17	23	+ 15	0	− 5	0·00	−0·66	29	+ 12	45	+18

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 9 Weeks, December 4th, 1910 to February 4th, 1911.

0. SCOTLAND, NORTH	54	14	*	*	*	*	108	+ 40	170	−126	49	+ 1	9·30	−2·74	46	− 1	11	0
Eastern																		
1. SCOTLAND, EAST	57	11	*	*	*	*	97	+ 30	222	−135	35	− 2	3·68	−1·86	93	+15	21	+ 3
2. ENGLAND, N.E.	56	19	*	*	*	*	113	+ 37	196	− 94	32	− 1	3·22	−0·78	90	+ 5	19	+ 1
3. ENGLAND, EAST	57	16	*	*	*	*	121	+ 39	230	−101	37	+ 2	4·23	+0·53	100	0	20	0
4. MIDLAND COUNTIES.. ..	57	14	*	*	*	*	121	+ 27	222	−111	34	0	4·11	−0·47	85	+ 1	17	0
5. ENGLAND, S.E.	55	16	*	*	*	*	140	+ 16	207	− 36	34	− 1	5·08	+0·20	110	+12	22	+ 2
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	122	+ 22	157	− 73	44	+ 2	8·06	−2·06	73	+ 3	16	+ 1
7. ENGLAND, N.W.	57	17	*	*	*	*	119	+ 20	158	− 75	35	− 3	4·95	−1·49	89	+17	19	+ 3
8. ENGLAND, S.W.	55	13	*	*	*	*	147	− 17	155	− 19	38	− 2	7·66	−0·55	110	+11	22	+ 2
9. IRELAND, NORTH	54	18	*	*	*	*	150	+ 28	142	− 61	40	− 4	4·78	−2·54	90	+ 6	19	+ 1
10. IRELAND, SOUTH	59	18	*	*	*	*	181	− 13	146	− 6	41	0	5·82	−2·77	104	+ 3	21	+ 1
11. ENGLISH CHANNEL	57	29	*	*	*	*	257	+ 3	57	− 1	39	− 5	5·48	−1·44	127	+ 1	24	0

THE YEAR.—Aggregates, &c., for the Period of 5 Weeks, January 1st to February 4th, 1911.

0. SCOTLAND, NORTH	52	14	*	*	*	*	40	+ 6	115	− 59	22	− 5	4·34	−2·40	29	− 1	12	0
Eastern																		
1. SCOTLAND, EAST	53	11	*	*	*	*	28	− 9	161	− 40	15	− 5	1·37	−1·53	56	+ 6	22	+ 2
2. ENGLAND, N.E.	55	19	*	*	*	*	32	− 9	146	− 19	14	− 5	1·43	−0·55	56	+ 5	20	+ 2
3. ENGLAND, EAST	56	16	*	*	*	*	16	− 27	182	− 6	17	− 2	1·71	−0·25	68	+ 7	24	+ 2
4. MIDLAND COUNTIES.. ..	56	14	*	*	*	*	27	− 25	175	− 11	12	− 7	0·91	−1·55	55	+ 3	20	+ 1
5. ENGLAND, S.E.	53	16	*	*	*	*	15	− 46	167	+ 25	15	− 4	1·46	−1·11	70	+ 13	24	+ 4
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	48	− 4	123	− 11	17	− 6	2·88	−2·40	46	+ 3	17	+ 1
7. ENGLAND, N.W.	55	17	*	*	*	*	31	− 19	131	− 3	12	− 9	1·25	−2·18	58	+ 14	21	+ 5
8. ENGLAND, S.W.	53	13	*	*	*	*	31	− 53	132	+ 28	14	− 8	1·65	−2·49	75	+ 16	26	+ 6
9. IRELAND, NORTH	54	18	*	*	*	*	54	− 13	115	− 1	15	− 9	1·83	−2·06	61	+ 11	22	+ 4
10. IRELAND, SOUTH	59	18	*	*	*	*	67	− 36	128	+ 42	16	− 6	1·73	−2·74	70	+ 11	25	+ 4
11. ENGLISH CHANNEL	53	29	*	*	*	*	77	− 48	57	+ 18	16	− 8	1·76	−1·66	76	+ 2	25	+ 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Melted rime.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*46*	*1, 2, 3rd*	*33*	*1st*	*45·1*	*40·4*	*42·8*	—	*12*	*4*	*2*	*0·06*	—	*0·9*	—	*2*	—	*Baltasound.*
	a Sumburgh Head	49	30th	32	1st	46·7	37·4	42·1	+ 3·5	20	13	0	0·00	− 0·84	5·1	− 4·7	9	− 9	Deerness.
	a Stornoway	47	2nd	28	1st	44·6	37·1	40·9	+ 1·9	7	19	2	0·04	− 1·05	12·4	+ 1·8	23	+ 3	Stornoway.
	a Castlebay, Barra Isd.	*47*	*29th*	*35*	*1st*	*45·0*	*40·4*	*42·7*	+ *1·7*	*12*	*4*	*0*	*0·00*	—	*11·0*	—	*19*	—	*Castlebay.*
	a Wick	48	29th	30	1st	44·0	35·4	39·7	+ 2·0	6	25	0	0·00	− 0·57	*	*	*	*	*
	p Strathpeffer	50	29th	25	1st	43·0	33·6	38·3	+ 1·3	3	30	0	0·00	− 0·69	14·1	+ 2·8	25	+ 5	Strathpeffer.
	p Glencarron	50	29th	25	1st	43·4	33·2	38·3	+ 1·8	4	32	0	0·00	− 2·04	*	*	*	*	*
	p Fort Augustus	49	29th	14	1st	42·2	29·5	35·9	− 1·7	1	44	1	0·01	− 1·14	11·1	+ 4·2	20	+ 8	Fort Augustus.
	p Fort William S	49	29th	20	1st	40·9	30·7	35·8	− 3·3	0	43	0	0·00	− 1·96	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	48	29th	23	1st	43·4	31·2	37·3	− 0·9	4	39	1	0·01	− 0·49	*16·6*	—	*30*	—	*Gordon Castle.*
	a Nairn	50	29th	20	1st, 2nd	42·1	28·7	35·4	− 1·9	0	47	0	0·00	− 0·45	17·7	—	32	—	Nairn.
	a Aberdeen	47	29th	27	1st	43·3	33·9	38·6	+ 0·8	4	29	0	0·00	− 0·52	13·6	− 0·9	24	− 2	Aberdeen.
	a Balmoral S	49	30th	11	2nd	44·9	25·6	35·3	+ 1·4	8	60	0	0·00	− 0·68	17·3	—	30	—	Crathes S.
	p Crieff S	46	29th, 4th	20	2nd	42·9	28·8	35·9	− 1·5	3	47	0	0·00	− 0·27	14·2	—	25	—	Balruddery
	a Leith	45	29th	23	1st	39·9	30·0	35·0	− 4·1	0	49	0	0·00	− 0·38	*	*	*	*	Edinburgh.
	p West Linton S	42	29th	16	31st	39·7	24·5	32·1	− 4·2	0	69	0	0·00	—	*21·7*	—	*37*	—	*West Linton.*
	p Marchmont S	44	29th, 2nd	20	2nd	42·0	29·6	35·8	− 0·7	0	43	0	0·00	− 0·52	13·9	+ 0·9	24	+ 2	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle	50	29th	21	1st	42·8	31·0	36·9	− 1·1	2	39	0	0·00	− 0·49	15·4	—	27	—	Cockle Park.
	a Shields	45	3rd	25	1st	42·3	32·0	37·2	− 1·3	1	36	0	0·00	− 0·34	*3·4*	− *5·5*	*6*	− *9*	*Newcastle.*
	p Durham	44	3rd	21	1st	40·6	29·9	35·3	− 2·0	0	47	0	0·00	− 0·34	12·2	− 1·0	21	− 2	Durham.
	p Rounton M	45	3rd	19	1st	40·5	29·2	34·9	− 2·0	0	50	1	0·01	− 0·38	*	*	*	*	*
	p Scarborough M	47	30th	31	1st	45·0	35·9	40·5	+ 2·0	8	24	1	0·01	− 0·43	19·5	—	33	—	Scarborough.
	p York	?45	3rd	19	1st	40·3	30·4	35·4	− 2·7	0	46	0	0·00	− 0·38	9·8	− 0·5	16	− 1	York.
— b, South.	*a* Spurn Head	44	29th, 4th	28	1st	41·1	34·1	37·6	− 1·1	0	31	1	0·01	− 0·27	*	*	*	*	*
	a Lincoln	44	3rd	21	1st	39·9	27·7	33·8	− 3·6	0	57	1	0·01	− 0·35	21·7	—	36	—	Skegness.
	a Fulbeck	45	29th	20	1st	40·1	28·7	34·4	− 3·4	0	53	2	0·05	− 0·33	19·8	—	33	—	Rauceby.
															23·9	—	*39*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer														—	—	—	—	Cromer.
	p Hillington M	46	29th	18	1st	40·9	27·7	34·3	− 3·0	0	54	4	0·18	− 0·26	26·2	+12·8	43	+21	Hillington.
	a Yarmouth	44	4th	26	2nd, 3rd	39·6	30·7	35·2	− 2·3	0	48	1	0·04	− 0·30	21·4	—	35	—	Yarmouth.
	a Norwich	45	29th	20	1st	40·3	28·1	34·2	− 3·1	0	55	2	0·06	—	*	*	*	*	*
	p Geldeston	50	29th	21	1st	41·6	29·1	35·4	− 2·7	0	46	2	0·06	− 0·28	24·0	+ 9·3	39	+15	Geldeston.
— b, South.	*p* Cambridge	43	3rd, 4th	16	1st	39·5	26·6	33·1	− 4·8	0	62	2	0·05	− 0·27	20·3	+ 6·2	33	+10	Cambridge.
	a Felixstowe	*46*	*29th*	*24*	*1st, 2nd*	*40·7*	*28·3*	*34·5*	− *3·9*	*0*	*53*	*2*	*0·02*	—	*26·0*	—	*43*	—	*Felixstowe.*
	a Clacton-on-Sea	45	4th	25	2nd	40·6	30·0	35·3	− 3·1	0	47	1	0·03	—	22·6	—	37	—	Clacton.
	a Rothamsted	42	4th	18	1st, 2nd	38·9	25·5	32·2	− 5·1	0	69	2	0·06	− 0·40	22·1	+ 8·8	36	+14	Rothamsted.
	a Shoeburyness	*44*	*4th*	*24*	*1st*	*39·1*	*27·7*	*33·4*	− *5·3*	*0*	*60*	*2*	*0·02*	− *0·26*	*25·2*	—	*41*	—	*Southend.*
	p Tottenham	42	4th	23	1st, 2nd	38·9	29·8	34·4	− 4·4	0	53	2	0·02	—	18·3	—	30	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	45	29th	21	1st	39·8	30·3	35·1	− 1·6	0	48	0	0·00	− 0·51	16·2	—	27	—	Harrogate.
	a Bawtry	44	29, 30, 3rd	16	1st	41·3	26·1	33·7	− 3·9	0	58	0	0·00	− 0·38	10·7	− 0·3	18	− 1	Worksop.
	p Buxton M	*42*	*30th*	*15*	*1st*	*39·4*	*25·9*	*32·7*	− *2·6*	*0*	*65*	*0*	*0·00*	− *1·02*	*16·3*	—	*27*	—	*Buxton.*
	a Nottingham	44	3rd, 4th	18	2nd	40·4	27·0	33·7	− 4·0	0	58	0	0·00	− 0·40	14·2	—	23	—	Nottingham.
	p Birmingham, Edgbsn	45	29th	22	1st	38·7	29·5	34·1	− 3·6	0	55	0	0·00	− 0·43	10·9	—	18	—	Birmingham.
	a Raunds M	44	4th	14	1st	40·5	24·5	32·5	− 4·7	0	67	1	0·04	—	*	*	*	*	*
	a Oxford	44	29th, 30th	20	1st, 2nd	40·6	27·4	34·0	− 4·7	0	56	2	0·02	− 0·38	22·9	+ 9·5	37	+15	Oxford.
— b, West.	*a* Cheadle M	43	3rd	22	1st	39·9	28·6	34·3	− 2·6	0	54	0	0·00	− 0·52	12·0	—	20	—	Sheffield.
	p Shrewsbury	43	30th	16	1st	39·7	25·4	32·6	− 6·0	0	66	0	0·00	—	*	*	*	*	*
	a Hereford M	—	—	18	1st	—	27·7	—	—	—	—	0	0·00	− 0·50	*	*	*	*	*
	a Cirencester	46	29th	14	2nd	39·1	24·1	31·6	− 5·9	0	73	0	0·00	− 0·50	17·7	+ 4·2	29	+ 7	Cirencester.
	a Bath	45	29th, 30th	20	2nd	40·9	28·3	34·6	− 5·0	0	52	0	0·00	− 0·51	25·0	—	40	—	Bath.
															25·4	—	*41*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	46	4th	23	1st, 2nd	39·1	29·7	34·4	− 4·6	0	53	0	0·00	− 0·37	11·6	+ 0·2	19	0	Kew.
	a Marlborough	44	29th	16	2nd	39·0	24·6	31·8	− 5·7	0	71	1	0·02	− 0·53	21·4	+ 9·8	35	+16	Marlborough.
	a Margate	49	29th	26	1st	41·3	31·2	36·3	− 2·8	0	40	2	0·04	− 0·31	24·2	+10·7	39	+17	Margate.
	a Wisley, Surrey	43	29th, 4th	19	1st, 2nd	38·4	26·7	32·6	− 6·8	0	66	1	0·01	—	20·8	—	34	—	Wisley.
	a Swarraton M	46	29th	16	2nd	39·0	25·8	32·4	− 5·4	0	67	2	0·03	− 0·52	34·7	—	55	—	Worthing.
	a Tunbridge Wells M	44	29th	23	1st	38·7	28·6	33·7	− 4·1	0	58	2	0·04	− 0·50	27·1	+14·2	44	+23	Tunbridge Wells.
	a Dungeness	46	29th	27	29th	40·6	31·0	35·8	− 3·6	0	43	2	0·02	− 0·37	25·1	—	41	—	Littlestone.
	p Hastings	46	29th	25	1st	40·1	31·8	36·0	− 3·7	0	42	2	0·02	− 0·48	*35·6*	+*19·6*	*57*	+*31*	*Hastings.*
	p Southampton	48	29th	25	1st, 2nd	41·4	30·8	36·1	− 4·2	0	41	0	0·00	− 0·55	28·7	+14·3	46	+23	Southampton.
	a Ventnor	46	29th, 4th	30	1st, 3rd	41·2	34·1	37·7	− 3·7	0	30	0	0·00	− 0·54	31·3	+15·5	50	+25	Ventnor.
															28·4	+13·5	45	+21	Eastbourne.
LONDON	*a Westminster*	*44*	*4th*	*25*	*2nd*	*40·6*	*31·0*	*35·8*	− *3·4*	*0*	*43*	*2*	*0·02*	− *0·35*	*12·2*	+ *6·2*	*20*	+*10*	*Westminster.*
	a Greenwich	*43*	*4th*	*22*	*1st*	*39·3*	*27·9*	*33·6*	− *5·2*	*0*	*59*	*2*	*0·03*	− *0·32*	*21·5*	+ *9·7*	*35*	+*16*	*Greenwich.*
6. — a, SCOTLAND. W.	*a* Poltalloch S	45	29th, 3rd	21	2nd	41·1	29·0	35·1	− 3·6	0	48	1	0·02	− 0·96	*	*	*	*	*
	p Glasgow	47	29th	24	1st, 2nd	38·1	30·1	34·1	− 4·3	0	55	0	0·03 ‖	− 0·67	0·0	− 7·7	0	− 13	Glasgow.
	p Rothesay S	47	29th	24	1st, 2nd	41·1	29·9	35·5	− 3·9	0	46	0	0·00	− 0·93	*	*	*	*	*
	a Kilmarnock	44	29th	19	2nd	41·0	27·1	34·1	− 5·0	0	55	0	0·00	—	*11·9*	—	*21*	—	*Kilmarnock.*
	a Colmonell S	51	3rd	18	2nd	43·3	27·3	35·3	− 3·4	4	52	0	0·00	− 0·95	*	*	*	*	*
	p Dumfries	43	29th	20	1st	39·9	29·4	34·7	− 3·7	0	51	0	0·00	− 0·75	*14·5*	—	*25*	—	*Dumfries.*
	p Cally, Gatehouse S	45	29th	19	2nd	42·0	30·2	36·1	− 2·1	0	41	0	0·00	− 1·00	*	*	*	*	*
— b, ISLE OF MAN	*p* Douglas	47	29th	29	1, 2, 3rd	42·9	33·2	38·1	− 2·3	3	32	1	0·01	− 0·78	23·6	+ 9·6	39	+16	Douglas.
															17·7	—	30	—	Hoylake.
7. — a, ENGLAND, N.W.	*p* Aspatria	46	29th	22	1st, 2nd	39·8	28·0	33·9	− 3·8	0	57	0	0·00	− 0·60	17·9	—	30	—	Aspatria.
	p Newton Rigg	45	29th, 3rd	17	2nd	39·6	26·2	32·9	− 3·7	0	64	0	0·00	− 0·74	22·7	+10·9	39	+19	Newton Rigg.
	p Stonyhurst	44	29th	21	1st	38·8	29·2	34·0	− 3·9	0	56	0	0·00	− 0·87	14·9	+ 3·9	25	+ 7	Stonyhurst.
	p Blackpool M	45	29th, 3rd	18	1st	39·4	28·4	33·9	− 4·7	0	57	0	0·00	− 0·57	20·1	+ 8·1	34	+14	Blackpool.
	p M'nch'ster, Prestwich	45	4th	20	1st	40·6	29·0	34·8	− 3·2	0	50	0	0·00	− 0·63	*4·3*	− *2·8*	*7*	− *5*	*Prestwich.*
	a Liverpool (Bidston)	43	29th	25	1st	39·3	31·1	35·2	− 4·5	0	48	0	0·00	− 0·46	*17·1*	—	*29*	—	*Liverpool.*
	a Hawarden Bridge	43	29th, 30th	21	2nd	40·0	29·5	34·8	− 5·3	0	50	0	0·00	− 0·35	*13·5*	+ *1·3*	*23*	+ *2*	*Southport.*
															20·6	—	*34*	—	*Rhyl.*
— b, NORTH WALES	*p* Llandudno M	46	29th	26	2nd	42·4	32·9	37·7	− 3·6	1	32	0	0·00	− 0·54	17·2	+ 3·3	29	+ 6	Llandudno.
	a Holyhead	45	31st, 3rd	30	1st	43·9	35·0	39·5	− 2·0	5	26	0	0·00	− 0·63	26·3	—	43	—	Aberdovey.
	p Bettws-y-Coed	45	29th	20	1st	39·7	27·6	33·7	− 6·7	0	58	0	0·00	—	18·7	—	31	—	Bettws-y-Coed.
															26·4	—	43	—	Aberystwyth.
8. — a, SOUTH WALES	*a* Llangammarch Wells	43	30th	13	1st	39·7	24·9	32·3	− 5·5	0	68	0	0·00	—	19·1	—	31	—	Llangammarch Wells.
	a Pembroke	47	30th	29	2nd, 3rd	42·7	33·3	38·0	− 4·3	2	31	0	0·00	− 0·69	22·0	+ 7·0	36	+11	Pembroke.
	p Cardiff	44	30th	23	1st	39·5	29·4	34·[illegible]	− 5·1	0	53	0	0·00	− 0·76	*21·3*	—	*39*	—	*Cardiff.*
															21·5	+ *5·3*	*36*	+ *9*	*Tenby.*
— b, ENGLAND, S.W.	*a* Clifton	44	29th, 30th	23	1st	39·9	30·1	35·0	− 4·7	0	49	0	0·00	− 0·60	*23·9*	—	*39*	—	*Clifton.*
	a Shaftesbury M	42	29th	23	2nd	38·0	28·5	33·3	− 4·5	0	61	1	0·02	− 0·56	*	*	*	*	*
	a Arlington	44	30th, 1st	22	2nd	41·1	29·9	35·5	− 3·7	0	46	0	0·00	− 0·98	30·4	+15·4	48	+25	Newquay.
	a Cullompton M	46	30th	21	2nd	40·6	29·3	35·0	− 4·9	0	49	1	0·01	− 0·68	25·0	+11·8	40	+19	Cullompton.
	a Portland Bill	46	29th	30	1, 2, 3rd	42·0	34·7	38·4	− 3·2	0	25	0	0·00	—	*26·3*	—	*42*	—	*Weymouth.*
	p Plymouth	45	29, 30, 3rd	26	3rd	42·7	34·7	38·7	− 3·3	2	26	0	0·00	− 0·71	27·2	+12·8	43	+20	Plymouth.
	p Falmouth	45	30th	32	3rd	42·7	37·8	40·3	− 2·8	2	16	0	0·00	− 0·90	20·7	+ 5·0	33	+ 8	Falmouth.
															18·4	+ *2·4*	*29*	+ *4*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	47	29th	34	31st	44·9	38·0	41·5	− 0·7	8	16	0	0·00	− 0·56	*	*	*	*	*
	a Blacksod Point	48	29th	30	2nd	43·6	35·6	39·6	− 2·9	4	24	1	0·04	− 0·96	*	*	*	*	*
	p Markree Castle	48	29th	18	1st	42·3	26·2	34·3	− 5·2	1	56	0	0·00	− 0·80	19·2	+ 7·1	32	+12	Markree Castle.
	a Birr Castle	48	29th	18	1st	40·3	29·1	34·7	− 5·2	0	51	0	0·00	− 0·57	*8·4*	− *5·3*	*14*	− *9*	*Birr Castle.*
— b, East.	*p* Armagh	47	29th	18	1st	40·5	28·1	34·3	− 5·4	0	54	1	0·01	− 0·54	12·4	− 0·2	21	0	Armagh.
	a Donaghadee	47	3rd	30	1st, 2nd	43·4	35·6	39·5	− 0·9	4	23	1	0·01	− 0·57	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City	46	29th	27	1st	42·6	34·5	38·6	− 3·2	2	27	0	0·00	− 0·50	17·3	+ 1·9	29	+ 3	Phœnix Park.
	a Kilkenny	46	29th	23	1st, 2nd	41·9	30·1	36·0	− 4·4	0	42	3	0·04	− 0·65	*	*	*	*	*
	a Waterford	47	29th	23	2nd	43·6	32·0	37·8	− 3·4	4	36	0	0·00	− 0·88	*	*	*	*	*
— b, West.	*a* Birr Castle	48	29th	18	1st	40·3	29·1	34·7	− 5·2	0	51	0	0·00	− 0·57	8·4	− 5·3	14	− 9	Birr Castle.
	a Foynes	50	29th	24	2nd	42·1	31·7	36·9	− 5·1	0	36	2	0·03	− 0·75	*	*	*	*	*
	a Cahir M	47	29th	24	1st, 2nd	41·4	31·7	36·6	− 4·5	0	38	0	0·00	—	*	*	*	*	*
	a Killarney	51	29th	24	2nd, 3rd	45·1	33·1	39·1	− 3·3	9	33	1	0·03	− 1·31	*	*	*	*	*
	a Valencia	51	29th	25	3rd	46·7	34·0	40·4	− 3·9	13	32	1	0·02	− 1·23	34·5	+20·1	57	+33	Valencia.
	a Roche's Point	48	29th	31	2nd, 3rd	44·9	37·0	41·0	− 2·3	8	20	1	0·01	− 0·96	17·9	—	29	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	47	29th	35	3rd	45·4	38·0	41·7	− 3·6	10	16	0	0·00	− 0·67	18·7	+ 2·1	30	+ 3	Scilly.
	a Jersey, St. Aubins	47	29th	29	1st	42·7	33·7	38·2	− 4·4	2	30	1	0·01	− 0·64	35·4	+16·5	55	+26	St. Heliers.
	a Guernsey	49	29th	33	31st, 1st	45·6	35·9	40·5	− 2·9	8	24	0	0·00	− 0·68	32·9	+17·1	51	+27	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 32·8 hrs. (+17·8 hrs.), 52 % (+28 %); Bournemouth, 31·1 hrs., 49 %; Bognor, 34·0 hrs., 54 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	39·9	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·7
	Crathes	3	11	35·8	38·3
	Balmoral	5	8	—	—
	West Linton.. ..	—	—	—	—
	Marchmont	5	15	36·1	—
2.	Cockle Park	4	19	36·3	40·4
	Durham	4	13	—	—
	York	—	—	38·7	41·8
	Hull	3	16	36·3	42·0
	Lincoln	—	—	35·7	40·3
	Rauceby	5	9	37·0	42·2
3.	Norwich	7	14	—	—
	Yarmouth	—	—	35·6	41·6
	Lowestoft	5	19	36·8	41·3
	Cambridge	6	15	36·5	41·9
	Clacton-on-Sea ..	6	18	39·2	43·7
	Southend	7	20	37·9	—
	Tottenham	5	16	—	43·1
4.	Harrogate	5	13	38·7	40·8
	Huddersfield ..	4	14	38·1	41·3
	Buxton	5	12	37·4	41·6
	Sheffield	5	13	36·9	41·1
	Nottingham.. ..	5	14	35·2	39·7
	Birmingham.. ..	5	6	38·3	43·9
	Oxford	5	15	—	—
	Hereford	4	12	—	—
	Cirencester	5	12	38·0	42·1
	Bath	—	—	38·6	42·7
5.	Margate	6	20	37·9	41·8
	Greenwich	5	14	—	—
	Westminster ..	5	19	—	—
	Kew	6	11	36·6	42·8
	Canterbury	5	17	38·0	43·2
	Tunbridge Wells ..	7	15	36·4	—
	Wisley	7	12	36·1	41·9
	Worthing	5	21	36·9	43·2
	Portsmouth	5	23	38·3	44·0
6.	Glasgow	4	17	—	—
	Rothesay	—	—	—	43·3
	Colmonell	5	16	16	—
6.	Dumfries	4	17	37·7	41·9
	Douglas	4	24	—	—
7.	Aspatria	5	10	38·8	43·2
	Newton Rigg ..	5	7	39·3	41·3
	Burnley	5	11	37·3	41·4
	Southport	5	11	36·2	41·3
	Manchester City ..	4	22	37·7	42·9
	Bettws-y-Coed ..	4	19	37·6	43·7
8.	Llangammarch Wells	7	1	38·4	44·0
	Cardiff	4	14	37·8	42·6
	Clifton	5	19	—	—
	Plymouth	3	20	40·1	—
9.	Armagh	5	14	40·5	44·0
	Markree	5	14	40·5	44·9
10.	Dublin, Trin. Coll. ..	5	15	39·7	43·6
11.	Guernsey, Brooklyn	2	26	41·2	45·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	44	42	43·1
	Wick	44	43	43·1
SCOTLAND, E.	Cromarty	40	37	38·4
	Pennan Bay	41	39	40·0
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	40	38	39·1
	Scarborough	43	40	41·0
ENGLAND, E.	Shipwash Lightship ..	42	38	39·9
	Margate‡	41	38	39·6
ENGLAND, S.E.	Eastbourne‡	41	36	38·6
SCOTLAND, W.	Lamlash	45	44	44·4
	Ballantrae	44	40	42·0
ENGLAND, N.W.	Port Erin	47	43	44·8
ENGLAND, S.W.	Newquay	46	44	45·3
	Scilly	48	45	46·4
	Plymouth‡	47	46	46·7
	Salcombe	47	43	44·8
IRELAND, N.W.	Sheephaven	46	44	44·9
	Teelin	45	40	42·9
IRELAND, S.W.	Cleggan	46	40	43·7
	Seafield	47	42	44·3
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

Registering Balloon Ascents.

Height km.	1 Manchester. January 5th. 5.25 p.m. Pressure. Mgd.	Temperature. A°	2 Pyrton Hill. January 5th. 7. 0 a.m. Pressure. Mgd.	Temperature. A°	3 Pyrton Hill. January 17th. 11.50 a.m. Pressure. Mgd.	Temperature. A°	Height km.
Ground	1·014	278°	1·000	274°A	1·022	278·5	Ground
0·5	—	—	·956	273	·977	277	0·5
1·0	—	—	·897	269·5	·920	278	1·0
1·5	0·855	275·5 271·5	·844	271	·864	275·5	1·5
2·0	·802	271·5	·795	268	·816	273	2·0
2·5	·752	268·5	·744	264·5	·767	270	2·5
3·0	·703	264·5	·700	260	·718	267·5	3·0
3·5	·660	259·5	·656	256	·675	265	3·5
4·0	·619	257	·613	253·5	·632	260·5	4·0
4·5	·580	254	·574	250	·592	258	4·5
5·0	·540	251	·537	246	·551	254	5·0
5·5	·506	248	·501	243	·518	250·5	5·5
6·0	·471	244	·468	239	·484	246·5	6·0
6·5	·440	240·5	·435	235	·451	243	6·5
7·0	·408	237·5	·405	232	·421	240	7·0
7·5	·380	235	·377	229	·392	236	7·5
8·0	·354	233	·351	225	·365	232	8·0
8·5	·329	231	·325	223	·340	229	8·5
9·0	·308	228	·302	223	·316	226	9·0
9·5	·286	224·5	·293	222	·291	221	9·5
10·0	·261	220	·261	221	·272	217	10·0
10·5				221			10·5
11·0	·223	219·5			·232	210	11·0
12·0	·191	222			·198	203	12·0
13·0	·165	222·5			·168	202	13·0
14·0	·149	222			·142	206	14·0
15·0	·123	222			·121	210	15·0
16·0	·107	221·5					16·0
16·8	·093	221					16·8

1.—Balloon fell at Stourport Worcestershire distant 128 km. direction 180.° Minimum Temperature 218 at 10·4 km. **2.**—Fell near Overton distant 45 km. direction 203.° The temperatures are doubtful to about 2° C. as there is some uncertainty about the zero line. The trace is very good and distinct. Overcast, foggy. Light N. wind. Inversion 269 to 272 at 1·1 km. Isothermal at 8·3 km. **3.**—Light S.W. wind, overcast. Clouds at 500 m. Balloon sent up in consequence of the unusual height of the barometer. Fell near Dorking 64 km. S.E. Inversion 76 to 78 at 9 km. The temperature at 13 km. 202° A, or – 98 F. is the lowest recorded in the British Isles up to the present date.

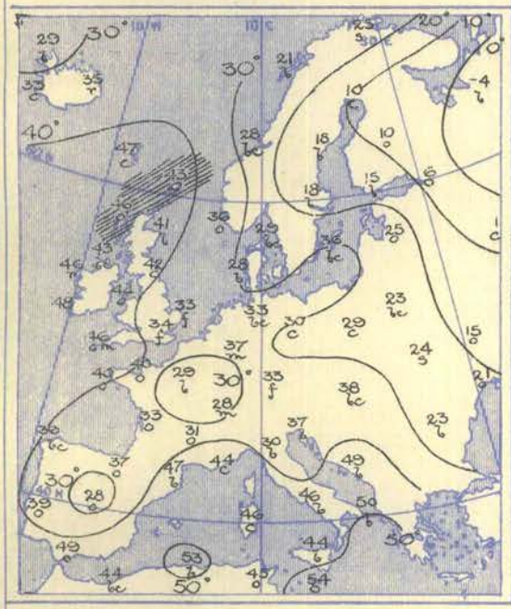
ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1911.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metres.	4,400 metres.	5,000 metres	5,500 metres	6,000 metres	7,000 metres	8,000 metres	9,000 metres.	10,000 metres	11,000 metres.	12,000 metres.	13,000 metres.
1	Jan. 24th, 10.24 a.m.	Pyrton Hill, Oxon. 150 m.	220°,8	260,° 11	270°, 11·5	275°,9	280°,11	280°,8	300°, 11	295°, 10	305°, 10	320°, 10										
2	Jan. 31st, 3.36 p.m.	Pyrton Hill, Oxon. 150 m.	85°,3	90°,7	128°,17																	

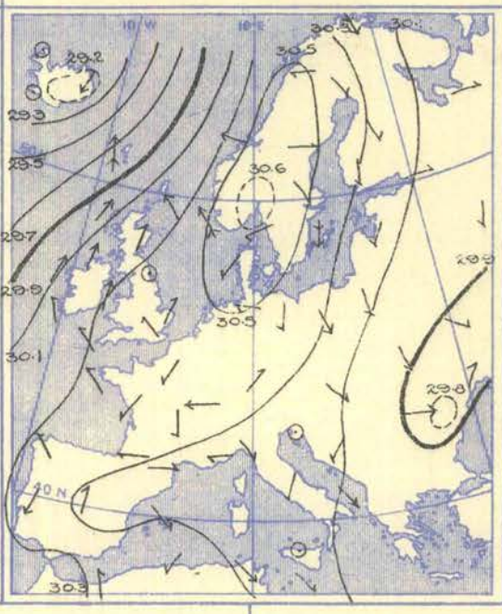
NOTES.—**1.** Two theodolites to 2,000 m. Some ci. st. A little low cloud formed and passed away earlier. Capacity of balloon, ·047 cub. metres.
2. Two theodolites. No clouds. Capacity of balloon, ·044 cub. metres.

Sunday, 29th January, 1911.

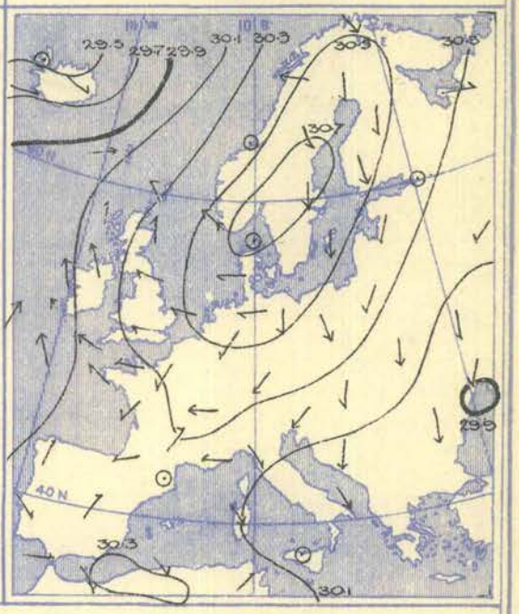
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning variable in these Islands; rainy on the west coast of Ireland, bright in Scotland, and foggy or misty in several English localities. Fair to fine and bright over the major portion of the Continent. About 0·5 in. of rain later at Lisbon and Gibraltar, slight snow at a few places in central Europe, and a very little rain in the west of Ireland. Remaining dry over our area as a whole.

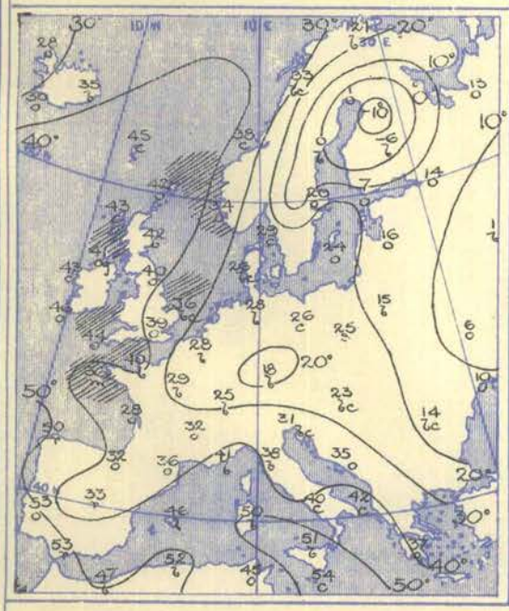
Temperature risen in Scotland, fallen in most other regions. Morning readings ranging from 53° at Algiers and 48° on the south coast of Ireland to below 32° over most of the mainland of the Continent, to below 10° over a wide area in Russia, and to −4° at Archangel. Maxima lower than of late in these Islands, and also over the greater part of the Continent. Frost continuing throughout the day at various stations in the central countries, and thermometer only rising to 35° at Turin. Maximum as high as 66° at Algiers.

Wind in morning light or moderate from the Southward over the greater part of the United Kingdom, but fresh to a gale between Scotland and the Faeröe. A gale from the North-Westward prevailing at Vardö and strong winds or gales from the Northward over the Baltic. Moderate breezes, mainly from between North and North-West, general over southern Europe and the Mediterranean. Decreasing in force later in day over the Baltic and off Scotland, but increasing to a gale from South-East on the south-west coast of Norway Becoming Easterly or South-Easterly in England and the adjacent portion of the Continent.

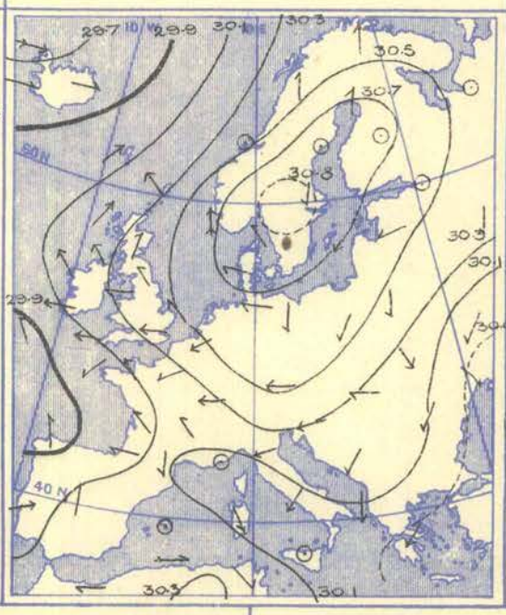
Barometer in morning 30·5 ins. to above 30·6 ins. over Scandinavia and Denmark; below 29·9 ins. in a depression centred near Bucharest, and below 29·2 ins. in a larger system over Iceland. Pressure continuing to increase during day over Scandinavia and Denmark, and to decrease over the south and south-west of our area. Icelandic depression travelling in a north-easterly or northerly direction.

Monday, 30th January, 1911.

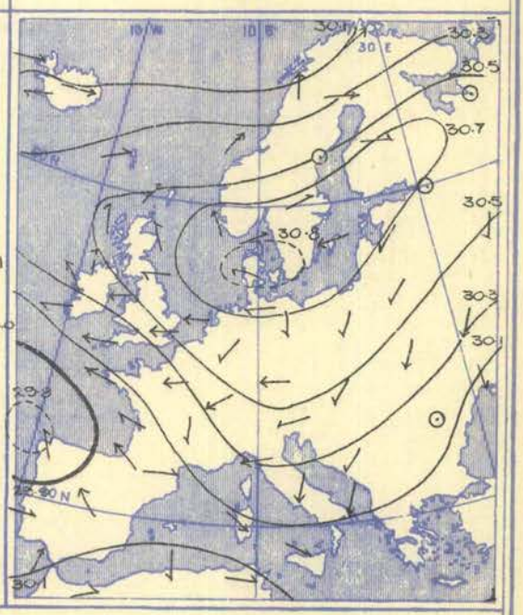
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast over our area as a whole, but fine and bright in Algeria and in a few localities elsewhere. Rain falling in various parts of the Spanish Peninsula and snow at Breslau and Memel. Continuing rainless over these Islands and a large portion of the Continent, but more than an inch experienced at Palermo and as much as 2·4 ins. at Gibraltar.

Temperature fallen in most regions. Morning readings ranging from 54° at Malta and about 50° at a few other stations in the far south to about 40° in many parts of these Islands, below 32° over the major portion of the Continent, to 1° at Moscow, and to −13° at Uleaborg Thermometer remaining below 40° throughout the day in some English localities, and below 32° over the central and northern countries, as well as at some stations in central France. Maxima above 60° on the coast of Algeria. Frost general at night over these Islands.

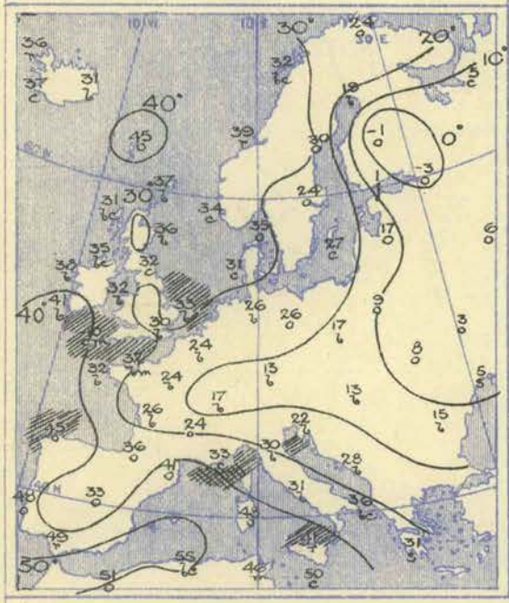
Wind in morning anticyclonic over nearly all the northern haf of our area. A Westerly gale prevailing at Isafjord, and a high wind from South-West at Thorshavn. South-Easterly to Easterly current fresh to strong over England. Light to moderate breezes from between North and West general over the Mediterranean. Increasing to a gale from the Eastward during day on the English Channel, and Easterly current becoming stronger in England generally. A gale from North setting in on the northern shores of the Black Sea.

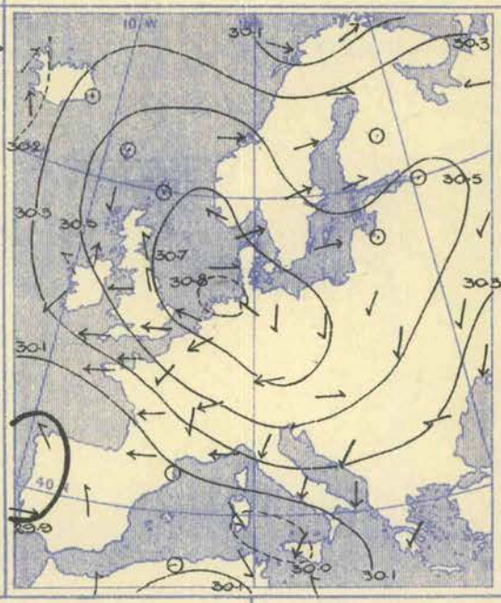
Barometer in morning above 30·8 ins. in a very large anticyclone having its centre over the south of Scandinavia; below 29·7 ins. in a depression to the northward of Iceland, and nearly as low in another on the Atlantic some distance to the west of Scilly. Relatively low in the south and south-east of our area. Anticyclonic centre moving south-westward to Denmark during day, and pressure increasing over this country and central Europe. A decided fall of the barometer setting in in northern Scandinavia, and also in Iceland.

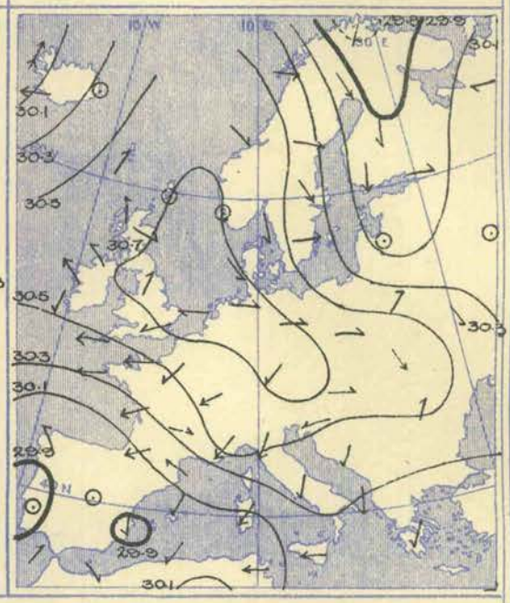
Tuesday, 31st January, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to fine and bright at many places in these Islands, France, and southern Europe, and in some localities elsewhere, but very cloudy or overcast over a large area in the central and northern regions. Snow falling in the south of Russia, as well as at Athens, Vienna, Memel, and Uleaborg, and rain in the south of Spain and also at Christiansund. Heavy rain later in various parts of the Spanish Peninsula, and as much as 2 ins. at Palermo. A considerable quantity of snow at St. Petersburg.

Temperature fallen generally. Morning readings below 32° over most of Great Britain, and over the major portion of the Continent; below 10° in Russia, and as low as -3° at St. Petersburg. About 50° on the coast of Algeria and the west and south coasts of Spain, and as high as 45° at Thorshavn. Thermometer remaining below 35° during day in some British localities, and below 32° in the east of France and the central countries, as well as at Turin. Maximum at Naples only 35°, and at Athens 36°. Severe frost at night in the English Midlands and in central Ireland.

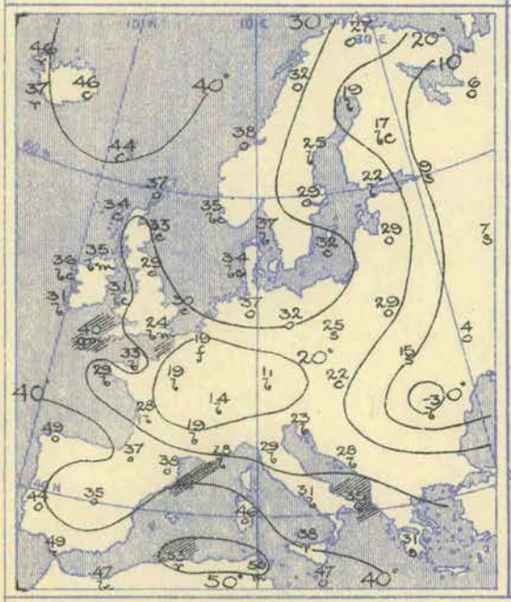
Wind in morning showing a very extensive anticyclonic circulation over the main body of our area, and cyclonic movements in the south and south-west. Easterly current strong to a gale on the English Channel. A fresh to strong Easterly breeze prevalent in northern Italy, and a high wind from the North-Eastward on the northern shores of the Black Sea. Gale in Channel subsiding by evening, but a strong gale from the Southward setting in on the west coast of Iceland.

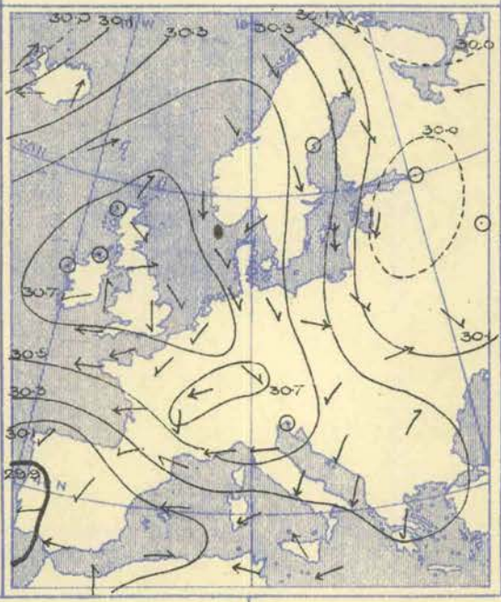
Barometer in morning 30·8 ins. over the north of Holland, and above 30·6 ins. over a very large area; below 29·9 in. a shallow depression over Portugal, and relatively low in the far north and south of Europe. Anticyclonic centre moving eastward and north-eastward during day, and pressure decreasing very decidedly over the Baltic region. A rather brisk fall of the barometer taking place in Iceland, but not extending to Scotland.

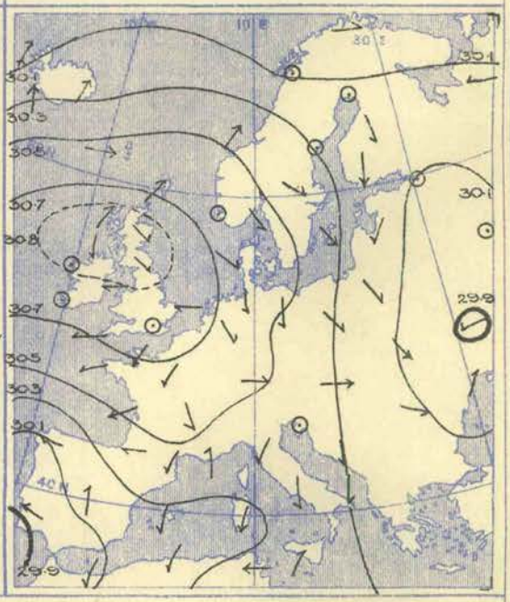
Wednesday, 1st February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to fine and bright over a considerable area in these Islands and France, but very cloudy or overcast in most other regions; some fog or mist prevailing in various parts of the United Kindgom. Snow falling over a large portion of central Europe, and also at Athens. Heavy rain later at San Fernando and Gibraltar and some snow in Austria and Germany.

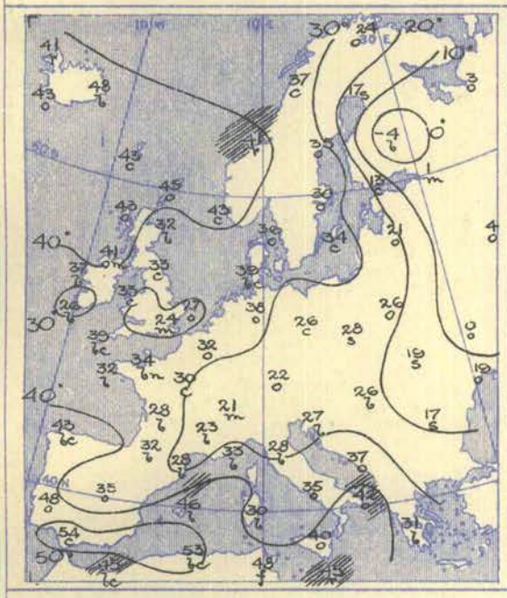
Temperature fallen in most places. Morning readings ranging from 4° below zero at Kharkoff and about 10° over a large area in Russia, 20° or very little above in central Ireland and England, about 30° over the major portion of Italy and in Greece, and to about 50° at some stations on the coast of Algeria. Remaining at about 32° all day in some parts of this country, and below it in central Europe, the east of France, and at Turin. Maxima below 40° in most parts of Italy, and only 40° at Palermo. Thermometer rising to 59° in Algeria. Sharp to severe frost at night over a large area in this country and on the Continent.

Wind in morning anticyclonic over the United Kingdom and the nearer countries of the Continent, cyclonic elsewhere. Northerly current strong to a gale on the Baltic, and a high wind from the Westward prevailing at Lemberg. Easterly winds, moderate to strong or high general over the Mediterranean and the Spanish Peninsula. Becoming strong from the Westward later at Thorshavn, and blowing a gale from South-West at Isafjord. Direction becoming more Northerly over the south of Europe.

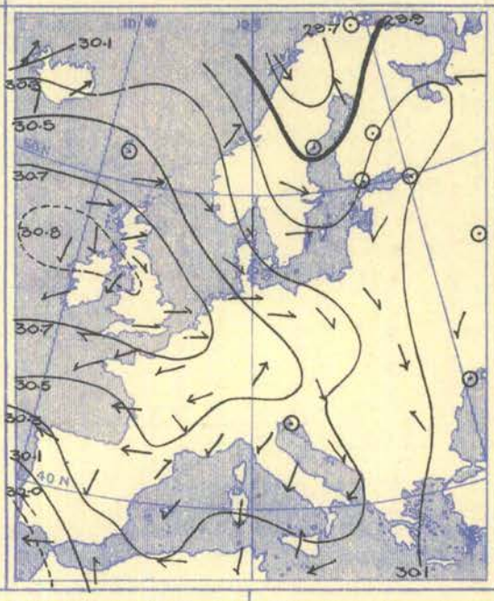
Barometer in morning ranging from above 30·7 ins. over these Islands and the Netherlands to below 30·0 ins. in a shallow depression over Russia, and to below 29·9 ins. in a system centred to the south-west of Spain. Pressure increasing slightly over this country during day, but decreasing decidedly over Norway, and also in the east of Europe. Anticyclonic centre covering Scotland and northern Ireland by evening.

Thursday, 2nd February, 1911.

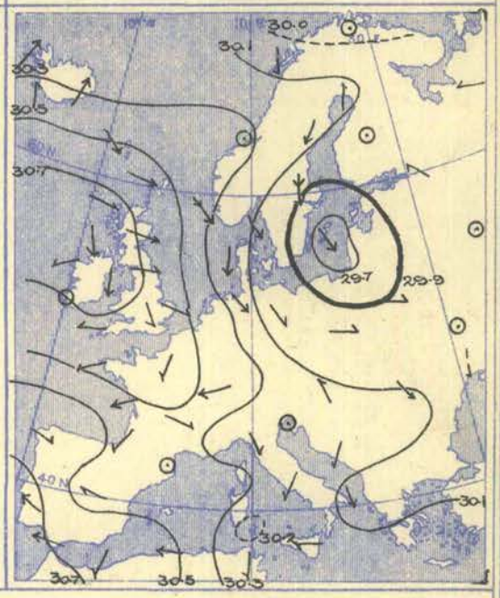
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over a large area in the south, and also in a few localities elsewhere, but generally cloudy or overcast; rain falling at Christiansund, and snow at Haparanda, Copenhagen, and at various places in central Europe. Some rain or snow later in various parts of Scandinavia, central Europe, and Russia, but conditions remaining dry in most regions.

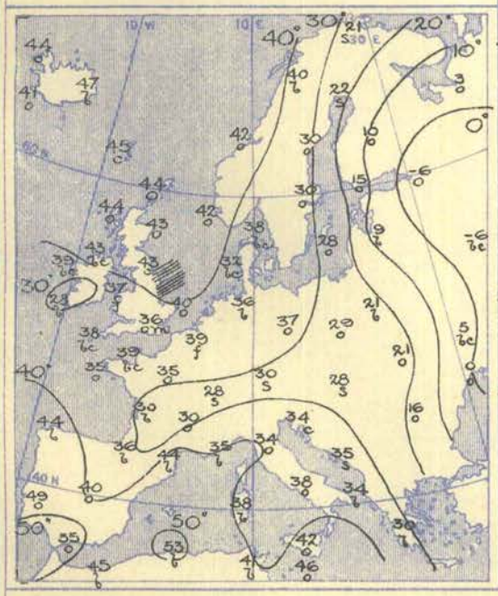
Temperature risen in Norway and north Scotland, as well as in several English localities. Morning readings ranging from 54° at San Fernando, 53° at Algiers, and nearly 50° in Iceland to below 25° at some English stations, and in extensive patches on the Continent, and to about zero in a large portion of Russia and Finland. Maxima below 35° at some of our own stations, and below 32° over a large area in the east and centre of the Continent, and also at Turin. Night less cold than the few preceding in these Islands.

Wind in morning cyclonic in the north and south-west of our area, cyclonic elsewhere. A South-Westerly gale prevailing in the north-west of Iceland and strong winds from between North-West and South-West over Scandinavia. Very light and rather variable airs over these Islands and their neighbourhood. A high wind from the Eastward reported at Oporto. A gale from the North-West setting in at Skudesnaes by evening and from North at Stockholm, and wind increasing in force over the Baltic.

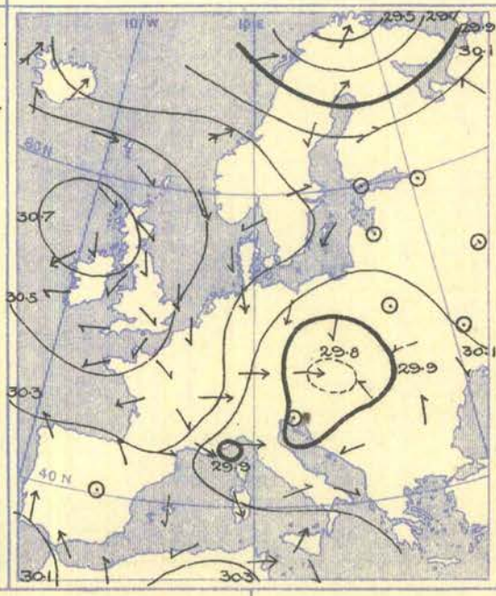
Barometer in morning above 30·8 ins. in the north-west of these Islands; below 29·7 ins. in the far north of Scandinavia, and relatively low over the Black Sea and in the extreme south-west and north of our area. A depression moving quickly southward during day and reaching the Baltic by evening; gradient increasing over the North Sea region and Denmark. Pressure giving way steadily in the east of these Islands, and very slowly in the west and south. Little change taking place within the central portion of the high pressure system.

Friday, 3rd February, 1911.

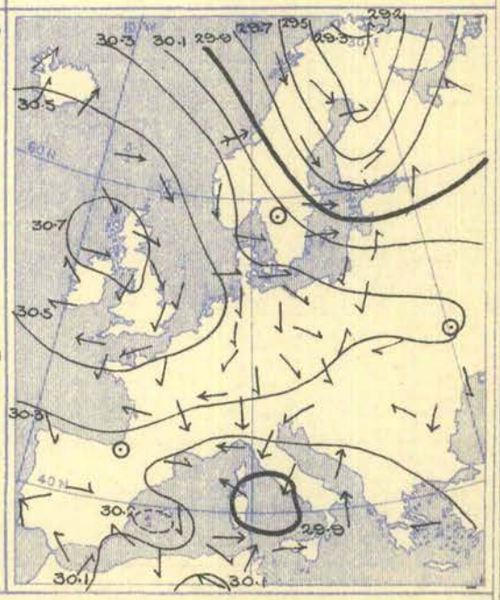
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in most regions, with rain or snow in some parts of central Europe and the Adriatic, as well as in the extreme north of Scandinavia. Fair to fine and bright over a considerable portion of the Mediterranean. Slight rain locally in England later and rather considerable falls in the south of Italy. A thunderstorm, with a little rain, occurring at Cape de Garde.

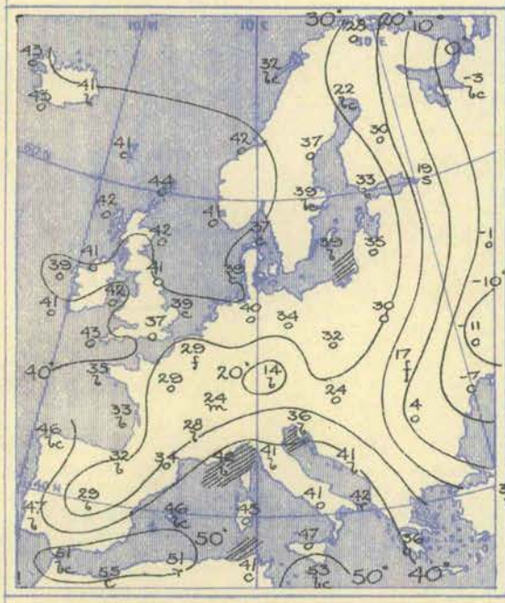
Temperature risen in nearly all parts of these Islands and their vicinity. Morning readings ranging from 53° at Algiers, 49° at Lisbon, and 47° in the east of Iceland to below 32° in some parts of these Islands and over a vast area on the Continent, and to below zero in central Russia. Maxima during day between 40° and 45° in the United Kingdom, the Netherlands and the north of France, but below 35° in the east of France, and below 32° over the eastern portion of central Europe. Minima at night very low in Russia and Transylvania; 17° below zero at Moscow.

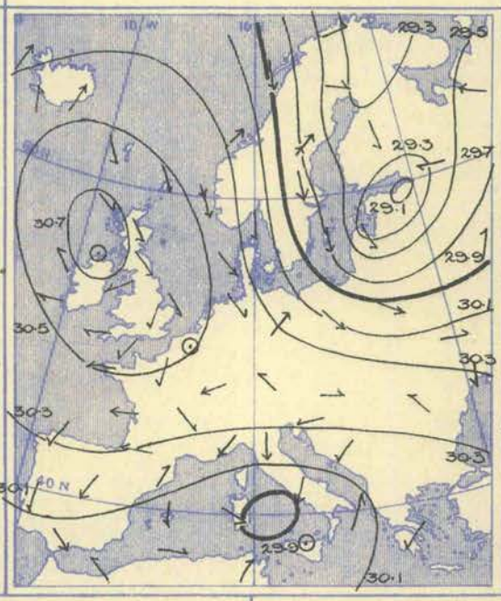
Wind in morning anticyclonic over the United Kingdom and its neighbourhood, cyclonic elsewhere. A Westerly gale prevailing at Christiansund, and some fresh or strong winds from various quarters in other parts of the Continent. A gale from South-West reported from the north-west of Iceland. Gale continuing all day at Christiansund and wind increasing to a gale from North-West over the Gulf of Bothnia.

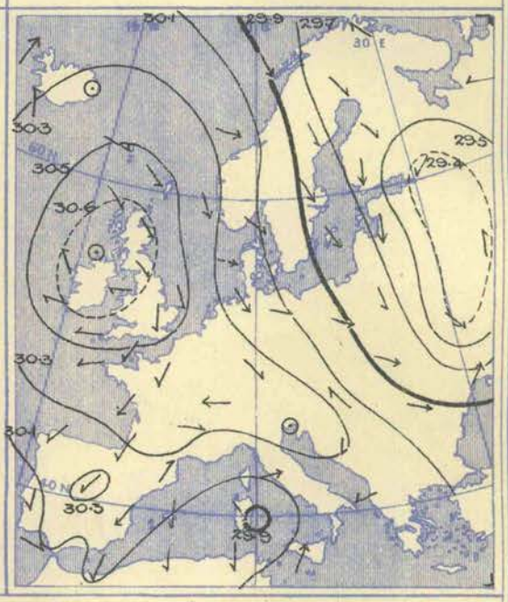
Barometer in morning above 30·7 ins. in an anticyclonic system centred in the north-west of these Islands; below 29·8 ins. in a large depression having its minimum over Hungary, and below 29·5 ins. in the far north of our area. Hungarian depression either dispersing or moving southwards later. Depression in extreme north extending southwards and causing a very brisk fall of the barometer in Finland. Pressure increasing in Iceland and in almost all parts of these Islands, and anticyclonic centre maintaining its position.

Saturday, 4th February, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning very cloudy or overcast generally, but fair to fine and bright in the south of France, most parts of Italy and the Spanish Peninsula, as well as in the south of Sweden. Slight rain falling at some English stations, rain reported from Algiers and Brindisi, and snow at St. Petersburg. Day continuing dry in most regions, but a little snow falling in Russia and some rather heavy rains in Algeria.

Temperature fallen in most regions, risen in the south-west of these Islands. Morning readings ranging from a little above 50° at a few stations in the extreme south of our area to about 40° over a considerable portion of the United Kingdom and in Italy, to below 32° over a large area in central Europe and also in central Spain, and to zero or many degrees below in Russia. Maxima during day below 45° over the major portion of the United Kingdom, France, the Netherlands, and Germany, and below 32° in some parts of Hungary and in the north and east of Europe. Thermometer rising to above 55° at a few places in the far south.

Wind in morning anticyclonic over these Islands and the nearer countries of the Continent, cyclonic elsewhere, the chief circulation being over northern Europe. Strong winds or gales general over Scandinavia, the Baltic, and the Gulf of Finland, and fresh to strong breezes prevalent at various places in the south of our area. No force stronger than a gentle breeze in these Islands. Gale subsiding over northern Europe by evening but wind continuing strong. Strong winds and gales setting in from South in the south of Russia.

Barometer in morning above 30·7 ins. in a large high pressure area having its maximum over the north-west of these Islands; below 29·9 ins. in a depression centred over the Mediterranean, and below 29·1 ins. in another system over the west of Russia. Very little modification occurring in the general situation during day, but a secondary anticyclone forming over central Spain, and Russian depression moving somewhat in an Easterly direction and undergoing slight alteration in form and depth.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
1	1911. Jan. 29th, 10.30 a.m. to 12.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	278° 92% 100°, 5·8	278·7° 92% 120°, 4	277·5° 85% 150°, 4·5					274·6° 85% 150°, 4·5	Metres. 875	Clear sky. Very steady wind.

APPARATUS USED IN THE KITE ASCENT.

No. of Ascent.	1
No. of Kites..	1
Area of Surface (sq. metres) ..	7
Capacity of Balloon (cub. metres)	—
Length of Wire (metres)	1,300

South Kensington, London, S.W. *February 8th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 6. SIXTH WEEK, SUNDAY, FEBRUARY 5TH, TO SATURDAY, FEBRUARY 11TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—The general condition was cloudy or overcast, but as a rule very dry. Most parts of Ireland experienced, however, a little rain on Thursday, and on the following day rain fell over the greater part of England and the south of Scotland, while on Saturday, when the weather was bright generally, there were further falls in East Anglia.

Temperature was below the average in all districts except Scotland N., the deficit being greatest—about 3°—in England S.E. and S.W., the English Channel, and Ireland S. The highest of the maxima were recorded on rather irregular dates, and ranged from 53° in Ireland S., and 50° in the English Channel, to 45° in England E. and N.E. The lowest of the minima, which occurred on the 10th or 11th at the majority of the stations, varied from 11° in Scotland E. (at Balmoral on the 11th) to 28° in England N.E., and to 30° in the English Channel. In most districts the minima ranged from 24° to 26°. The lowest grass readings were 8° at Balmoral, 12° at Newton Rigg and Llangammarch Wells, 16° at Tunbridge Wells, 17° at Burnley, and 18° at Markree Castle and Kew Observatory.

Mean Temperature of the Sea. On the coasts generally the water differed little in warmth from that of the corresponding week of last year; it was, however, 2° or 3° colder on some parts of the south-west coasts of England and Ireland, and 2° or 3° warmer off the north-east of Scotland. The means for the week ranged from 46° at Scilly and Plymouth to below 40° at most stations along the east coast of Britain, and to 37°·5 at Cromarty.

Rainfall was much less than the average. At many stations the fall was less than 0·1 inch, and at Balmoral, Bawtry, and Llandudno there was none.

Bright Sunshine was considerably below the normal over England and in the east and west of Scotland, but in Ireland and in Scotland N. there was a slight excess. The percentages of the possible duration ranged from 27 to 24 in Ireland, from 21 to 12 in Scotland, and over England from 15 in the S.E. and N.W. to 11 in the N.E. In the English Channel the percentage was 21.

Barometer and Wind. During the greater part of the period the conditions were anticyclonic, the central portion of the system being at first situated directly over these islands, and subsequently to the eastward or south-eastward on the Continent. During Friday, however, a well-marked "V shaped" disturbance travelled from west to east directly across the United Kingdom, and the winds became Southerly, and finally North-Westerly. At the end of the period another anticyclonic system was extending over this country from the south-westward, while the "V" depression was becoming less deep, and much modified in form, over the North Sea.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 52.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient	Deficient
	Rainfall ...	Very light	Very light	Very light	Moderate	Very light	Light	Light	Light	Very light	Light	Light	Very light
	Sunshine ...	Moderate	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 10 weeks from Dec. 4th, 1910.	Warmth ...	**5** * 0	**5** * 1	**4** * 2	**4** * 1	**4** * 1	**3** * 1	**3** * 1	**4** * 2	**3** * 2	**4** * 2	**2** * 5	**3** * 3
	Rainfall ...	**1** * 5	**0** * 5	**3** * 5	**3** * 3	**2** * 5	**3** * 5	**2** * 4	**1** * 4	**2** * 5	**1** * 7	**2** * 7	**2** * 5
	Sunshine ...	**3** * 1	**5** * 3	**3** * 4	**2** * 3	**3** * 2	**3** * 3	**4** * 5	**5** * 3	**3** * 2	**2** * 2	**2** * 2	**1** * 3

PAST SEASONS.

WINTER, 1909-10. Dec. 5th–March 5th. 13 weeks.	Warmth ...	**1** * 5	**2** * 4	**3** * 4	**4** * 2	**3** * 2	**5** * 4	**3** * 4	**5** * 3	**4** * 4	**3** * 6	**2** * 6	**4** * 4
	Rainfall ...	**4** * 2	**5** * 2	**5** * 2	**6** * 1	**7** * 2	**5** * 2	**6** * 1	**7** * 1	**7** * 2	**6** * 3	**6** * 3	**5** * 3
	Sunshine ...	**10** * 2	**6** * 0	**4** * 2	**7** * 2	**8** * 2	**8** * 2	**5** * 1	**8** * 0	**6** * 1	**4** * 4	**4** * 1	**3** * 3
SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SIXTH WEEK—February 5th to February 11th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	48	26	42·6	33·8	38·2	+ 1·0	2	− 4	29	− 13	3	− 2	0·21	−1·03	12	+ 1	20	+ 1
Eastern																		
1. SCOTLAND, EAST	47	11	41·2	30·4	35·9	− 1·0	0	− 8	43	− 3	2	− 2	0·06	−0·49	13	− 4	21	− 7
2. ENGLAND, N.E.	45	28	40·6	32·7	36·7	− 2·0	0	−10	37	+ 3	1	− 2	0·04	−0·34	7	− 10	11	−16
3. ENGLAND, EAST	45	26	40·4	33·6	37·0	− 1·4	0	−11	35	− 3	4	0	0·26	−0·11	8	− 10	12	−15
4. MIDLAND COUNTIES	46	27	40·1	32·6	36·4	− 2·2	0	−12	39	+ 2	1	− 3	0·07	−0·40	8	− 7	13	−11
5. ENGLAND, S.E.	48	25	40·6	33·6	37·1	− 2·9	0	−14	34	+ 6	2	− 1	0·13	−0·39	10	− 6	15	− 9
Western																		
6. SCOTLAND, WEST	49	25	42·6	34·2	38·4	− 0·2	2	− 8	28	− 4	3	− 2	0·19	−0·79	7	− 7	12	−11
7. ENGLAND, N.W.	47	25	40·8	33·8	37·3	− 2·3	0	−11	33	+ 5	1	− 3	0·09	−0·53	9	− 5	15	− 7
8 ENGLAND, S.W.	49	25	41·4	34·0	37·8	− 3·4	0	−16	29	+ 6	1	− 3	0·08	−0·68	9	− 7	14	−11
9. IRELAND, NORTH	48	23	43·6	34·1	38·9	− 1·5	4	−10	29	+ 4	2	− 3	0·16	−0·55	15	+ 1	24	+ 1
10. IRELAND, SOUTH	53	24	44·6	34·7	39·6	− 2·5	7	−13	27	+ 8	2	− 3	0·18	−0·62	17	+ 1	27	+ 2
11. ENGLISH CHANNEL	50	30	44·3	37·5	40·9	− 3·1	6	−18	17	+ 7	1	− 3	0·03	−0·61	14	− 6	21	− 9

THE SEASON (Winter).—Aggregates, &c., for the Period of 10 Weeks, December 4th, 1910, to February 11th, 1911.

0. SCOTLAND, NORTH	54	14	*	*	*	*	110	+ 36	199	−139	52	− 1	9·51	−3·77	58	0	12	0
Eastern																		
1. SCOTLAND, EAST	57	11	*	*	*	*	97	+ 22	265	−138	37	− 4	3·74	−2·35	106	+11	21	+ 2
2. ENGLAND, N.E.	56	19	*	*	*	*	113	+ 27	233	− 91	33	− 3	3·26	−1·12	97	− 5	18	− 1
3. ENGLAND, EAST	57	16	*	*	*	*	121	+ 28	265	−104	41	+ 2	4·49	+0·42	108	−10	19	− 2
4. MIDLAND COUNTIES	57	14	*	*	*	*	121	+ 15	261	−109	35	− 3	4·18	−0·87	93	− 6	17	− 1
5. ENGLAND, S.E.	55	16	*	*	*	*	140	+ 2	241	− 30	36	− 2	5·21	−0·19	120	+ 7	21	+ 1
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	124	+ 14	185	− 77	47	0	8·25	−2·85	80	− 4	15	− 1
7. ENGLAND, N.W.	57	17	*	*	*	*	119	+ 9	191	− 70	36	− 6	5·04	−2·02	98	+12	18	+ 2
8. ENGLAND, S.W.	55	13	*	*	*	*	147	− 33	184	− 13	39	− 5	7·74	−1·23	119	+ 4	21	+ 1
9. IRELAND, NORTH	54	18	*	*	*	*	154	+ 18	171	− 57	42	− 7	4·94	−2·09	105	+ 7	20	+ 1
10. IRELAND, SOUTH	59	18	*	*	*	*	188	− 26	173	+ 2	43	− 3	6·00	−3·39	121	+ 4	22	+ 1
11. ENGLISH CHANNEL	57	29	*	*	*	*	263	− 15	74	+ 6	40	− 8	5·51	−2·05	141	− 5	24	− 1

THE YEAR.—Aggregates, &c., for the Period of 6 Weeks, January 1st to February 11th, 1911.

0. SCOTLAND, NORTH	52	14	*	*	*	*	42	+ 2	144	− 72	25	− 7	4·55	−3·43	41	0	13	0
Eastern																		
1. SCOTLAND, EAST	53	11	*	*	*	*	28	− 17	204	− 43	17	− 7	1·43	−2·02	69	+ 2	22	+ 1
2. ENGLAND, N.E.	55	19	*	*	*	*	32	− 19	183	− 16	15	− 7	1·47	−0·89	63	− 5	19	− 2
3. ENGLAND, EAST	56	16	*	*	*	*	16	− 38	217	− 9	21	− 2	1·97	−0·36	76	− 3	22	− 1
4. MIDLAND COUNTIES	56	14	*	*	*	*	27	− 37	214	− 9	13	−10	0·98	−1·95	63	− 4	18	− 1
5. ENGLAND, S.E.	53	16	*	*	*	*	15	− 60	201	+ 31	17	− 5	1·59	−1·50	80	+ 7	23	+ 2
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	50	− 12	151	− 15	20	− 8	3·07	−3·19	53	− 5	16	− 1
7. ENGLAND, N.W.	55	17	*	*	*	*	31	− 30	164	+ 2	13	−12	1·34	−2·71	67	+ 9	20	+ 3
8. ENGLAND, S.W.	53	13	*	*	*	*	31	− 69	161	+ 34	15	−11	1·73	−3·17	84	+ 9	24	+ 3
9. IRELAND, NORTH	54	18	*	*	*	*	58	− 23	144	+ 3	17	−12	1·99	−2·61	76	+ 12	23	+ 4
10. IRELAND, SOUTH	59	18	*	*	*	*	74	− 49	155	+ 50	18	− 9	1·91	−3·36	87	+ 12	25	+ 4
11. ENGLISH CHANNEL	53	29	*	*	*	*	83	− 66	74	+ 25	17	−11	1·79	−2·27	90	− 4	25	− 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*48*	*6th*	*32*	*8th*	*42·2*	*34·9*	*38·6*	—	*1*	*25*	*4*	*0·26*	—	*11·3*	—	*20*	—	*Baltasound.*
	a Sumburgh Head ..	48	6th	27	8th	43·3	33·3	38·3	+ 0·1	4	31	3	0·21	− 0·59	18·6	+ 7·0	32	+12	Deerness.
	a Stornoway	46	6, 7, 11th	30	8th, 9th	44·7	35·7	40·2	+ 1·2	8	24	6	0·45	− 0·62	11·7	− 0·9	20	− 2	Stornoway.
	a *Castlebay, Barra Isd.*	*48*	*7th*	*37*	*11th*	*45·1*	*39·6*	*42·4*	+ *1·2*	*13*	*7*	*4*	*0·46*	—	*14·4*	—	*24*	—	*Castlebay.*
	a Wick	45	6, 7, 11th	26	8th	43·0	32·7	37·9	+ 0·3	3	34	1	0·10	− 0·46	*	*	*	*	* *
	p Strathpeffer.. ..	43	6th–11th	26	8th	42·7	33·2	38·0	+ 0·9	2	32	1	0·03	− 0·64	10·6	− 2·7	18	− 5	Strathpeffer.
	p Glencarron .. S	45	10th	31	11th	41·6	34·2	37·9	+ 1·4	0	29	2	0·17	− 1·73	*	*	*	*	* *
	p Fort Augustus S	43	9th, 11th	26	11th	41·5	33·3	37·4	− 0·3	0	32	1	0·05	− 1·03	5·5	− 3·0	9	− 5	Fort Augustus.
	p Fort William S	45	7th	27	11th	41·2	34·2	37·7	− 1·4	0	30	5	0·47	− 1·40	*	*	*	*	* *
0. SCOTLAND, N. — b, Mainland.	p Gordon Castle S	47	11th	27	8th	44·0	30·1	37·1	− 1·1	6	43	1	0·06	− 0·44	*16·3*	—	*27*	—	*Gordon Castle.*
	a Nairn	44	9, 10, 11th	24	9th	42·1	32·0	37·1	− 0·3	0	35	3	0·08	− 0·37	13·4	—	22	—	Nairn.
	a Aberdeen	45	6th	31	9th, 11th	42·1	33·7	37·9	0·0	0	29	2	0·03	− 0·51	18·5	+ 2·5	31	+ 4	Aberdeen.
	a Balmoral .. S	45	10th	11	11th	42·7	22·1	32·4	− 1·6	2	70	0	0·00	− 0·67	17·5	—	29	—	Crathes S.
	p Crieff .. .. S	47	7th	26	11th	39·9	30·6	35·3	− 2·4	0	47	2	0·13	− 0·72	8·3	—	14	—	Balruddery
	a Leith	45	7th	33	6th, 11th	41·4	34·7	38·1	− 1·0	0	27	2	0·09	− 0·29	*	*	*	*	Edinburgh.
1. SCOTLAND, E.	p West Linton.. S	41	7th, 11th	23	11th	37·2	29·9	33·6	− 2·8	0	59	1	0·04	—	*8·0*	—	*13*	—	*West Linton.*
	p Marchmont .. S	44	11th	29	6, 8, 9th	40·3	30·3	35·3	− 1·5	0	47	1	0·08	− 0·45	6·0	− 8·5	10	−14	Marchmont.
	a Alnwick Castle ..	43	5th, 7th	31	8, 9, 10th	41·2	32·0	36·6	− 1·4	0	38	1	0·05	− 0·43	13·5	—	22	—	Cockle Park.
	a Shields	45	7th	30	11th	41·0	32·3	36·7	− 2·1	0	37	1	0·05	− 0·29	*6·7*	− *3·8*	*11*	− *6*	*Newcastle.*
2. ENGLAND, N.E. — a, North.	p Durham	45	7th	29	6th	40·3	31·2	35·8	− 1·5	0	43	1	0·03	− 0·30	8·1	− 6·5	13	−10	Durham.
	p Rounton .. M	43	7th	28	7th	39·5	30·7	35·1	− 2·0	0	48	1	0·04	− 0·34	*	*	*	*	* *
	p Scarborough.. M	45	7th	33	10th	42·3	35·1	38·7	0·0	1	24	1	0·01	− 0·43	2·4	—	4	—	Scarborough.
	p York	43	7th, 11th	30	7th	40·4	32·7	36·6	− 1·7	0	38	1	0·02	− 0·37	3·8	− 8·3	6	−13	York.
	a Spurn Head	?44	5th	33	6, 7, 10th	40·1	34·4	37·3	− 1·6	0	33	2	0·07	− 0·22	*	*	*	*	* *
2. ENGLAND, N.E. — b, South.	a Lincoln	43	11th	32	6, 10, 11th	40·6	33·4	37·0	− 0·9	0	35	1	0·03	− 0·33	4·9	—	8	—	Skegness.
	a Fulbeck	43	8th, 11th	32	6, 7, 8, 10	39·9	32·7	36·3	− 1·9	0	40	1	0·04	− 0·34	10·5	—	16	—	Rauceby.
															5·9	—	*9*	—	*Lowestoft.*
	p Cromer	43	10th	28	10th	40·8	33·1	37·0	0·0	0	35	6	0·17	—	6·0	—	9	—	Cromer.
	p Hillington .. M	43	5th	26	10th	39·4	32·7	36·1	− 1·5	0	41	5	0·68	+ 0·25	5·0	−10·1	8	−16	Hillington.
3. ENGLAND, E. — a, North.	a Yarmouth	42	5th	34	7, 10, 11th	40·0	35·4	37·7	+ 0·1	0	30	5	0·31	− 0·03	6·7	—	11	—	Yarmouth.
	a Norwich	43	5th	26	10th	39·9	32·8	36·4	− 1·1	0	39	5	0·54	—	*	*	*	*	* *
	p Geldeston	43	5th	28	10th	40·5	33·2	36·9	− 1·6	0	36	5	0·32	− 0·02	6·6	− 9·7	10	−15	Geldeston.
	p Cambridge	45	11th	27	10th	40·9	33·5	37·2	− 1·1	0	34	1	0·05	− 0·28	11·9	− 4·1	19	− 6	Cambridge.
	a *Felixstowe* ..	*43*	*5th*	*34*	*7, 9, 10th*	*40·6*	*35·0*	*37·8*	− *0·7*	*0*	*29*	*4*	*0·07*	—	*10·6*	—	*17*	—	*Felixstowe.*
	a Clacton-on-Sea ..	44	5th	34	11th	41·0	35·3	38·2	− 0·3	0	27	2	0·03	—	10·7	—	17	—	Clacton.
3. ENGLAND, E. — b, South.	a Rothamsted ..	44	11th	27	10th	40·3	31·4	35·9	− 1·7	0	43	2	0·14	− 0·31	10·1	− 4·7	16	− 7	Rothamsted.
	a *Shoeburyness* ..	*44*	*11th*	*29*	*10th*	*41·1*	*33·6*	*37·4*	− *1·5*	*0*	*32*	*2*	*0·04*	− *0·24*	*12·3*	—	*19*	—	*Southend.*
	p Tottenham	44	11th	28	10th	40·7	34·9	37·8	− 1·2	0	29	1	0·12	—	6·4	—	10	—	Tottenham.
	a Harrogate	43	7th	27	7th	39·3	31·2	35·3	− 1·7	0	47	2	0·07	− 0·45	8·1	—	13	—	Harrogate.
	a Bawtry	44	11th	30	7th	40·3	32·7	36·5	− 1·7	0	39	0	0·00	− 0·38	6·1	− 6·4	10	−10	Worksop.
	p *Buxton* .. M	*43*	*11th*	*27*	*9th*	*38·0*	*30·9*	*34·5*	− *1·0*	*0*	*53*	*1*	*0·03*	− *0·97*	*5·9*	—	*19*	—	*Buxton.*
4. MIDLAND COUNTIES. — a, East.	a Nottingham ..	44	11th	32	7th, 8th	40·3	33·6	37·0	− 1·0	0	35	1	0·03	− 0·37	6·6	—	10	—	Nottingham.
	p Birmingham, Edgbsn	43	11th	32	10th	39·3	33·7	36·5	− 1·5	0	39	1	0·09	− 0·33	1·5	—	2	—	Birmingham.
	a Raunds .. M	45	11th	29	10th	41·4	32·3	36·9	− 0·8	0	36	1	0·08	—	*	*	*	*	* *
	a Oxford	44	11th	31	8, 10, 11th	40·1	33·0	36·6	− 2·4	0	38	1	0·10	− 0·30	11·7	− 3·2	18	− 5	Oxford.
	a Cheadle .. M	42	11th	30	7th, 8th	38·7	31·5	35·1	− 2·0	0	48	1	0·10	− 0·41	8·9	—	14	—	Sheffield.
	p Shrewsbury	44	11th	32	11th	40·6	33·5	37·1	− 2·0	0	34	1	0·07	—	*	*	*	*	* *
4. MIDLAND COUNTIES. — b, West.	a Hereford .. M	—	—	28	8th	—	32·4	—	—	—	—	2	0·07	− 0·43	*	*	*	*	* *
	a Cirencester	43	11th	28	10th	39·3	31·1	35·2	− 2·5	0	48	1	0·12	− 0·38	12·2	− 3·1	19	− 5	Cirencester.
	a Bath	46	10th, 11th	31	8th	41·9	33·7	37·8	− 2·2	0	29	1	0·05	− 0·46	11·4	—	18	—	Bath.
															13·3	—	*21*	—	*Ramsgate.*
	p Kew	43	10th, 11th	28	10th	41·0	34·3	37·7	− 1·6	0	30	1	0·11	− 0·26	8·2	− 4·3	13	− 7	Kew.
	a Marlborough ..	46	11th	30	8th, 11th	39·5	32·1	35·8	− 2·1	0	43	1	0·16	− 0·39	8·9	− 4·1	14	− 6	Marlborough.
	a Margate	42	5, 8, 11th	29	10th	40·7	34·5	37·6	− 1·8	0	31	1	0·04	− 0·32	9·5	− 5·9	15	− 9	Margate.
	a Wisley, Surrey ..	44	11th	29	10th	40·2	32·7	36·5	− 3·1	0	39	2	0·16	—	8·8	—	14	—	Wisley.
5. ENGLAND, S.E... ..	a Swarraton .. M	43	11th	26	10th	39·3	31·0	35·2	− 3·0	0	48	2	0·13	− 0·42	10·7	—	17	—	Worthing.
	a Tunbridge Wells M	42	10th, 11th	25	10th	39·3	31·1	35·2	− 3·0	0	48	2	0·10	− 0·44	11·6	− 2·9	18	− 5	Tunbridge Wells.
	a Dungeness	44	11th	33	8th, 10th	41·6	34·3	38·0	− 1·5	0	28	2	0·13	− 0·25	7·3	—	11	—	Littlestone.
	p Hastings	45	11th	34	10th	40·9	35·6	38·3	− 1·5	0	26	2	0·13	− 0·37	*11·9*	− *5·9*	*18*	− *9*	*Hastings.*
	p Southampton ..	46	11th	32	8th	41·6	34·7	38·2	− 2·5	0	27	1	0·13	− 0·40	10·9	− 5·3	17	− 8	Southampton.
	a Ventnor	48	11th	33	7th, 8th	41·5	35·7	38·6	− 3·0	0	24	3	0·16	− 0·36	9·5	− 8·2	15	−12	Ventnor.
															11·6	− 4·9	18	− 8	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*46*	*11th*	*31*	*10th*	*41·4*	*36·1*	*38·8*	− *0·5*	*0*	*22*	*1*	*0·12*	− *0·26*	*5·9*	− *1·1*	*9*	− *2*	*Westminster.*
	a *Greenwich*	*45*	*11th*	*25*	*10th*	*41·0*	*32·9*	*37·0*	− *2·0*	*0*	*35*	*2*	*0·11*	− *0·25*	*7·3*	− *5·4*	*11*	− *8*	*Greenwich.*
	a Poltalloch .. S	45	5, 7, 11th	28	11th	43·6	34·0	38·8	+ 0·1	4	29	4	0·29	− 0·64	*	*	*	*	* *
	p Glasgow	45	7th	30	11th	41·1	35·0	38·1	− 0·4	0	27	2	0·05	− 0·63	5·4	− 3·6	9	− 6	Glasgow.
	p Rothesay .. S	47	7th	30	11th	43·6	36·3	40·0	+ 0·5	4	21	3	0·23	− 0·68	*	*	*	*	* *
6. — a, SCOTLAND. W. ..	a Kilmarnock ..	46	7th	26	11th	41·9	31·9	36·9	− 2·0	0	36	3	0·06	—	*5·7*	—	*9*	—	*Kilmarnock.*
	a Colmonell .. S	49	11th	33	5th	42·9	34·0	38·5	0·0	3	29	3	0·26	− 0·66	*	*	*	*	* *
	p Dumfries .. S	45	7th	27	11th	41·4	32·6	37·0	− 1·6	0	35	2	0·07	− 0·69	*9·2*	—	*15*	—	*Dumfries.*
	p Cally, Gatehouse S	48	11th	25	11th	43·7	32·8	38·3	− 0·1	5	34	1	0·07	− 0·93	*	*	*	*	* *
6. — b, ISLE OF MAN ..	p Douglas	45	9th, 11th	35	6th, 11th	42·7	36·9	39·8	− 0·5	2	18	4	0·50	− 0·30	8·9	− 6·6	14	−11	Douglas.
															7·7	—	12	—	Hoylake.
	p Aspatria	44	11th	28	11th	40·8	33·1	37·0	− 0·7	0	35	3	0·11	− 0·49	12·3	—	20	—	Aspatria.
	p Newton Rigg ..	42	11th	26	11th	39·1	31·1	35·1	− 1·5	0	48	1	0·06	− 0·68	16·0	+ 2·6	26	+ 4	Newton Rigg.
	p Stonyhurst	41	7th, 11th	25	11th	39·4	32·0	35·7	− 2·3	0	44	1	0·14	− 0·69	7·2	− 5·3	11	− 8	Stonyhurst.
7. — a, ENGLAND, N.W...	p Blackpool .. M	43	10th	27	7th	40·7	33·1	36·9	− 1·8	0	36	1	0·13	− 0·43	10·2	− 3·4	16	− 5	Blackpool.
	p M'nch'ster, Prestwich	41	7, 8, 11th	26	11th	39·8	32·5	36·2	− 2·0	0	41	2	0·11	− 0·49	*2·8*	− *5·6*	*4*	− *9*	*Prestwich.*
	a Liverpool (Bidston)	43	11th	32	7th, 8th	40·1	33·9	37·0	− 2·4	0	35	1	0·07	− 0·37	*7·1*	—	*11*	—	*Liverpool.*
	a Hawarden Bridge ..	44	11th	30	8th	40·8	34·5	37·7	− 2·4	0	30	1	0·01	− 0·35	*8·8*	− *5·2*	*14*	− *8*	*Southport.*
															8·7	—	*14*	—	*Rhyl.*
	p Llandudno .. M	47	11th	34	9th	42·6	36·9	39·8	− 1·5	2	19	0	0·00	− 0·52	6·1	− 9·3	10	−15	Llandudno.
7. — b, NORTH WALES ..	a Holyhead	45	11th	34	9th	42·9	36·6	39·8	− 1·6	3	20	2	0·05	− 0·57	10·4	—	16	—	Aberdovey.
	p Bettws-y-Coed ..	44	8th	29	11th	41·3	34·0	37·7	− 2·7	0	30	2	0·17	—	4·4	—	7	—	Bettws-y-Coed.
															10·8	—	17	—	Aberystwyth.
	a Llangammarch Wells	44	11th	25	8th, 11th	39·3	30·3	34·8	− 3·2	0	50	1	0·07	—	5·4	—	8	—	Llangammarch Wells.
8. — a, SOUTH WALES ..	a Pembroke	46	10th	35	6, 7, 8th	43·0	35·9	39·5	− 2·6	3	22	2	0·16	− 0·50	10·5	− 6·2	16	−10	Pembroke.
	p Cardiff	47	11th	30	8th	41·4	33·0	37·2	− 2·5	0	34	1	0·04	− 0·70	*11·0*	—	*17*	—	*Cardiff.*
															9·2	− *8·5*	*14*	−*13*	*Tenby.*
	a Clifton	45	10th, 11th	31	8th	41·3	33·9	37·6	− 2·4	0	31	2	0·11	− 0·47	*9·4*	—	*15*	—	*Clifton.*
	a Shaftesbury .. M	45	11th	30	11th	38·8	31·5	35·2	− 2·9	0	48	1	0·07	− 0·51	*	*	*	*	* *
	a Arlington	49	5th	29	8th	40·9	32·3	36·6	− 2·6	0	38	1	0·15	− 0·81	8·2	− 8·8	12	−13	Newquay.
8. — b, ENGLAND, S.W. ..	a Cullompton .. M	48	11th	28	11th	42·1	32·3	37·2	− 3·0	0	34	1	0·02	− 0·66	10·0	− 5·0	15	− 8	Cullompton.
	a Portland Bill ..	46	11th	34	8th	42·4	36·7	39·6	− 1·9	1	19	1	0·05	—	*11·5*	—	*17*	—	*Weymouth.*
	p Plymouth	47	11th	32	11th	42·2	36·0	39·1	− 2·9	1	21	1	0·10	− 0·58	8·0	− 8·4	12	−13	Plymouth.
	p Falmouth	46	10th, 11th	36	7th, 11th	42·9	38·4	40·7	− 2·4	3	14	2	0·07	− 0·83	9·5	− 8·2	14	−12	Falmouth.
															8·9	− *8·5*	*14*	−*13*	*Torquay.*
	a Malin Head	47	11th	35	5th, 6th	43·4	36·6	40·0	− 0·8	4	20	2	0·07	− 0·48	*	*	*	*	* *
	a Blacksod Point ..	48	11th	32	7th	44·3	36·0	40·2	− 2·3	6	23	2	0·29	− 0·66	*	*	*	*	* *
9. IRELAND, N. — a, West.	p Markree Castle ..	48	10th, 11th	23	11th	44·0	29·4	36·7	− 3·1	6	46	2	0·21	− 0·56	17·7	+ 4·1	28	+ 7	Markree Castle.
	a Birr Castle	48	11th	27	11th	43·9	32·9	38·4	− 1·6	5	33	3	0·14	− 0·41	*17·2*	+ *2·4*	*27*	+ *4*	*Birr Castle.*
9. IRELAND, N. — b, East.	p Armagh	48	10th, 11th	30	11th	42·8	33·5	38·2	− 1·6	2	31	1	0·12	− 0·41	12·2	− 1·5	19	− 2	Armagh.
	a Donaghadee	47	11th	33	11th	43·0	36·1	39·6	− 0·9	3	22	2	0·12	− 0·45	*	*	*	*	* *
	p Dublin, City.. ..	46	10th	33	11th	43·4	35·2	39·3	− 2·8	4	25	1	0·01	− 0·49	12·5	− 4·0	20	− 6	Phœnix Park.
10. IRELAND, S. — a, East.	a Kilkenny	48	11th	24	11th	43·3	32·9	38·1	− 2·5	4	33	1	0·14	− 0·51	*	*	*	*	* *
	a Waterford	48	10th	28	11th	44·1	34·9	39·5	− 1·8	6	26	1	0·15	− 0·71	*	*	*	*	* *
	a Birr Castle	48	11th	27	11th	43·9	32·9	38·4	− 1·6	5	33	3	0·14	− 0·41	17·2	+ 2·4	27	+ 4	Birr Castle.
10. IRELAND, S. — b, West.	a Foynes	49	11th	32	8th	44·4	35·2	39·8	− 2·5	7	25	2	0·17	− 0·60	*	*	*	*	* *
	a Cahir .. .. M	46	11th	26	11th	42·9	31·5	37·2	− 4·0	3	37	1	0·13	—	*	*	*	*	* *
	a Killarney	53	11th	28	11th	47·3	34·8	41·1	− 1·4	15	29	2	0·34	− 0·95	*	*	*	*	* *
	a Valencia	50	11th	31	11th	47·1	38·0	42·6	− 1·7	21	11	3	0·33	− 0·91	21·0	+ 5·1	33	+ 8	Valencia.
	a Roche's Point ..	47	10th, 11th	32	7th	44·6	36·6	40·6	− 2·7	7	21	3	0·17	− 0·79	18·4	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	50	11th	37	8th	45·9	38·6	42·3	− 2·9	16	10	1	0·04	− 0·63	11·6	− 7·3	18	−11	Scilly.
	a Jersey, St. Aubins ..	48	11th	30	10th	43·4	35·7	39·6	− 3·0	4	23	2	0·02	− 0·60	16·9	− 3·8	26	− 6	St. Heliers.
	a Guernsey	48	11th	36	10th	43·6	38·2	40·9	− 2·5	4	14	1	0·02	− 0·65	13·3	− 5·1	20	− 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 10·1 hrs.* (− *6·6 hrs.*), *16* % (− *10* %); *Bournemouth, 11·1 hrs., 17* %; *Bognor, 9·9 hrs., 15* %

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp At 1 foot.	Mean Earth Temp At 4 feet.
			°	°	°
0.	Baltasound	—	—	38·6	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·6
	Crathes	5	19	35·2	38·0
	Balmoral	7	8	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	4	23	34·7	—
2.	Cockle Park	4	24	35·6	39·1
	Durham	3	26	—	—
	York	—	—	37·9	41·2
	Hull	2	30	37·6	41·3
	Lincoln	—	—	35·9	40·0
	Rauceby	3	28	37·8	41·9
3.	Norwich	4	19	—	—
	Yarmouth	—	—	36·9	41·0
	Lowestoft	1	28	38·3	40·8
	Cambridge	4	21	37·2	41·0
	Clacton-on-Sea ..	1	25	39·4	44·5
	Southend	2	23	38·4	—
	Tottenham	2	22	—	42·1

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	5	21	37·6	39·7
	Huddersfield ..	4	24	35·6	40·5
	Buxton	6	22	34·8	40·8
	Sheffield	4	24	36·1	40·4
	Nottingham.. ..	3	25	35·2	38·3
	Birmingham.. ..	5	29	37·6	43·1
	Oxford	3	26	—	—
	Hereford	3	23	—	—
	Cirencester	3	23	37·1	41·1
	Bath	—	—	37·1	41·6
5.	Margate	1	?	38·7	41·1
	Greenwich	3	19	—	—
	Westminster ..	2	26	—	—
	Kew	3	18	36·6	41·9
	Canterbury	1	20	37·9	42·8
	Tunbridge Wells ..	4	16	36·4	—
	Wisley	4	21	36·3	40·8
	Worthing	1	27	37·6	42·2
	Portsmouth	2	27	38·9	43·1
6.	Glasgow	2	22	—	—
	Rothesay	—	—	—	42·1
	Colmonell	0	32	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	2	23	35·9	40·1
	Douglas	1	28	—	—
7.	Aspatria	1	21	37·0	42·3
	Newton Rigg ..	5	12	37·3	40·3
	Burnley	5	17	34·7	40·9
	Southport	4	20	33·9	39·4
	Manchester City ..	0	31	35·3	42·0
	Bettws-y-Coed ..	1	28	36·0	42·3
8.	Llangammarch Wells	7	12	36·3	43·2
	Cardiff	3	25	36·5	41·4
	Clifton	4	26	—	—
	Plymouth	2	23	39·4	—
9.	Armagh	1	26	38·8	42·9
	Markree	4	18	38·9	44·2
10.	Dublin, Trin. Coll. ..	2	21	38·9	42·6
11.	Guernsey, Brooklyn	1	25	40·8	44·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	45	42	42·5
	Wick	44	44	44·0
SCOTLAND, E.	Cromarty	39	36	37·5
	Pennan Bay	40	39	39·7
	Aberdeen, Cove Bay ..	42	41	41·7
ENGLAND, N.E.	Burnmouth, Berwick ..	38	38	38·0
	Scarborough	42	39	41·0
ENGLAND, E.	Shipwash Lightship ..	40	39	39·8
	Margate‡	39	39	38·7
ENGLAND, S.E.	Eastbourne‡	39	38	38·9

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	44	43	43·9
	Ballantrae	42	41	41·5
ENGLAND, N.W.	Port Erin	45	44	44·3
ENGLAND, S.W.	Newquay	45	45	45·0
	Scilly	47	45	46·2
	Plymouth‡	46	46	45·9
	Salcombe	44	43	43·5
IRELAND, N.W.	Sheephaven	45	44	44·7
	Teelin	44	40	42·6
IRELAND, S.W.	Cleggan	44	40	41·5
	Seafield	45	42	45·5
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it i so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

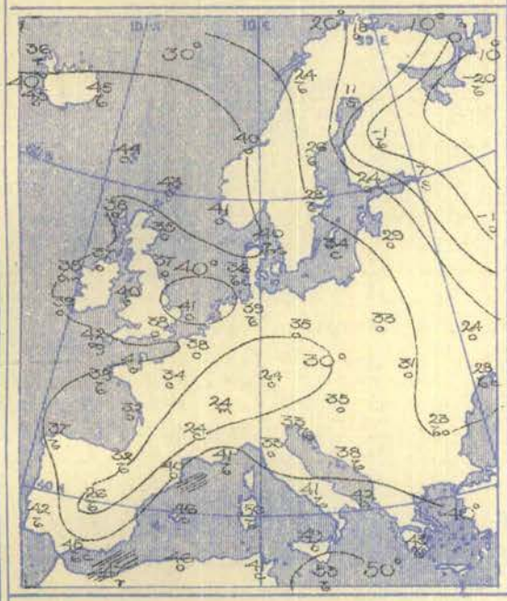
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 5th February, 1911.

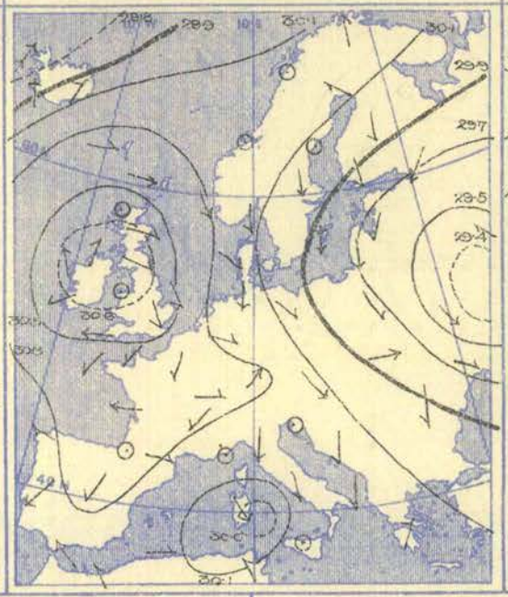
Temperature and Weather.

7 a.m.

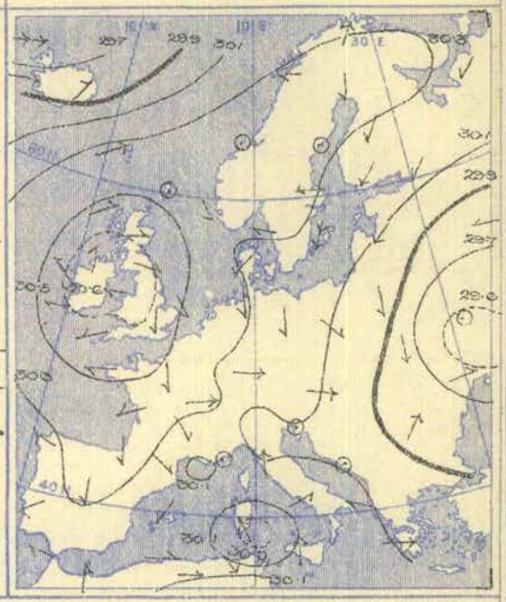


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over nearly the whole of southern Europe, the south of Russia, and some parts of Denmark, Scandinavia, and Finland; cloudy or overcast elsewhere, with showers at Castlebay and snow at St. Petersburg, as well as at Haparanda. Rain falling at Nemours. Slight rain experienced later in a few parts of England, rather considerable amounts in Algeria and at Palma, and some snow in Russia and Poland.

Temperature fallen over the northern half of our area generally, changed rather irregularly elsewhere. Morning readings below 32° over most of the mainland of the Continent, and in central Spain, below 10° in the greater part of Russia, and as low as −20° at Archangel. Above 35° at almost all our own stations and in the Netherlands, and about 50° at some places in the extreme south of our area. Remaining below 40° throughout the day in various parts of these Islands, the east of France, and central Europe, and also at Turin, and much below 32° in the east and north of Europe. Frost extremely severe at night in Russia and Finland.

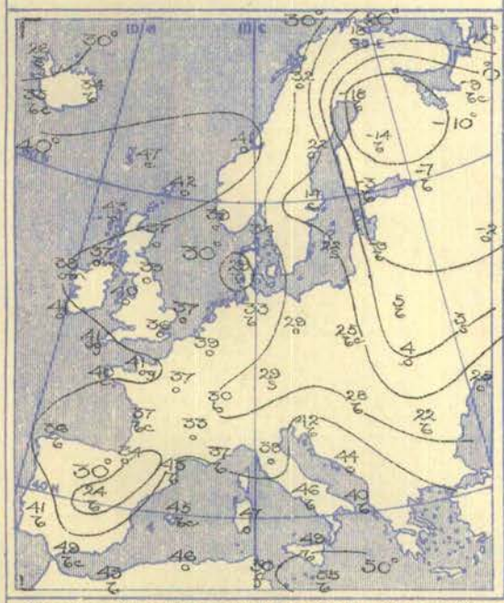
Wind in morning anticyclonic over the United Kingdom and the surrounding regions; cyclonic elsewhere. Northerly current strong to a gale over the Baltic, and fresh or strong over Germany. A gale from South-West prevailing at Isafjord, but little force over this country and southern Europe. No change of importance during day; wind veering to West and still blowing a gale at Isafjord.

Barometer in morning above 30·6 ins. in a large anticyclone having its maximum over this country; below 30·0 ins. in a small depression over Sardinia, and below 29·4 ins. in a much larger system over Russia. Scarcely any change taking place during day within the high pressure area, but barometer falling between Iceland and northern Norway. Russian depression moving Southward and decreasing somewhat in intensity.

Monday, 6th February, 1911.

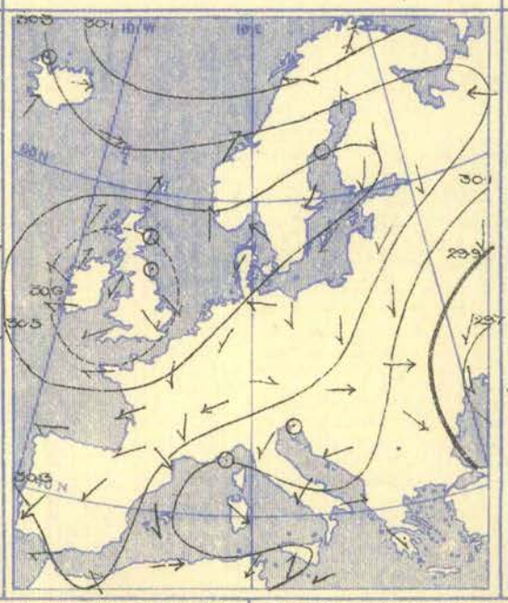
Temperature and Weather.

7 a.m.

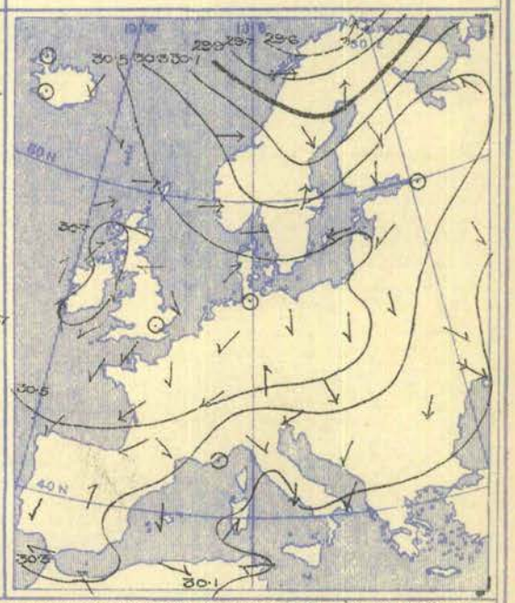


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast in nearly all parts of northern and central Europe, with slight rain at Dungeness and snow in places scattered over a wide area on the Continent. Fair to bright in the southern regions. Some rain in Scotland and at Yarmouth later and snow in Denmark and in some Scandinavian localities. Rather heavy rain at Tunis and Cape de Garde, and smaller quantities in Sardinia and Sicily. Continuing very dull at almost all our own stations.

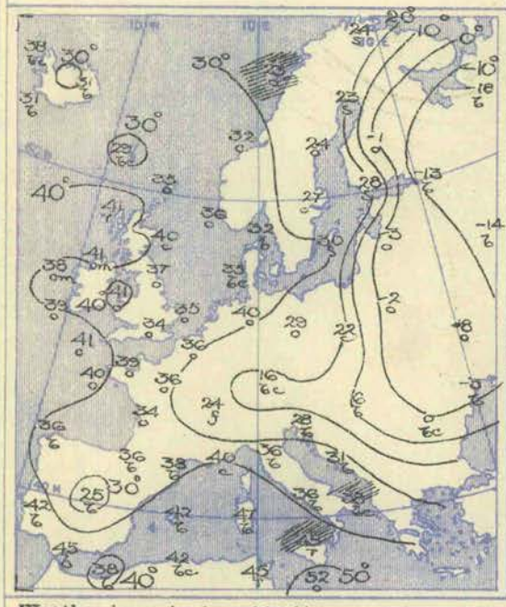
Temperature fallen over these Islands, Scandinavia, the Baltic, and Germany, changed irregularly or risen elsewhere. Readings in morning ranging from 55° at Malta and above 45° at many other southern stations to below 32° over the major portion of the Continent, and to below zero over a large area in Russia, Finland, and the north of Sweden. Remaining below 40° during day in many parts of England, the east of France, central Europe, and at Turin, and below 32° in eastern and northern Europe. Highest point at St. Petersburg zero. Thermometer rising to 60° at Palermo, to 59° at Athens and in the south of Spain, and to 64° at Corunna.

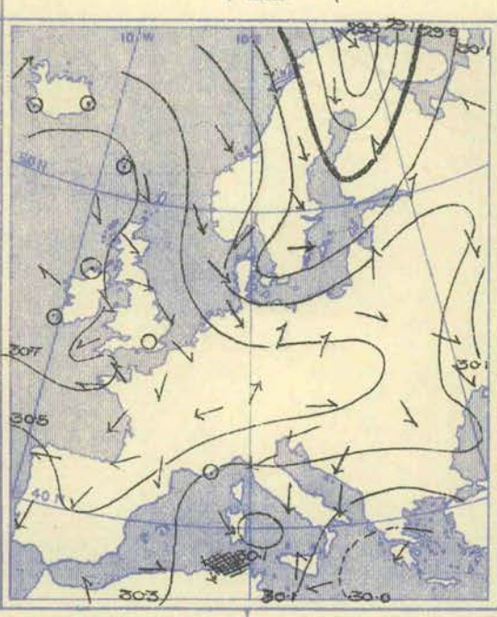
Wind in morning showing a very extensive anticyclonic circulation in the west and north-west of our area and a cyclonic movement over the Mediterranean. A strong Westerly current prevailing in the north, drawing into the South-Westward at Vardö and blowing a gale. Increasing to a gale from North-West by evening on the northern shores of the Black Sea, and from West on the north-west coast of Norway. No important change elsewhere.

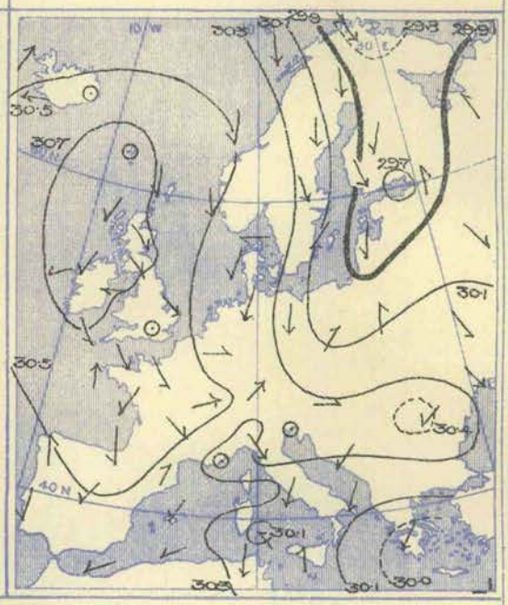
Barometer in morning above 30·6 ins. over these Islands and above 30·5 ins. in a ridge extending to Finland; below 29·7 ins. over the Black Sea region, and below 30·1 ins. over the western portion of the Mediterranean, and also in the extreme north-west of our area. A brisk increase of pressure taking place during day in Iceland and an equally brisk fall over northern Scandinavia. A slight rise occurring in these Islands and their immediate vicinity. Gradient increasing both in the north and south-east of Europe.

Tuesday, 7th February, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.







Weather in morning fine and bright over southern Europe and in many parts of Russia and also in Algeria, but rainy at Tunis. Very cloudy or entirely overcast in the more northern and central regions, with rain at some Scottish stations, and snow in places in Scandinavia. Slight rain falling in a few English localities later, heavy rain at Tunis, and slight to moderate quantities of snow in various parts of central and northern Europe as well as at Athens.

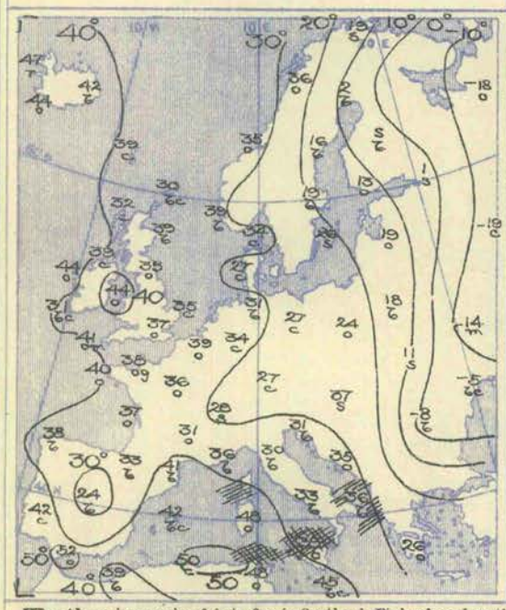
Temperature risen in Finland and northern Sweden, fallen generally elsewhere. Morning readings much below zero over the major portion of Russia, below 20° at several stations in the central countries, and below 32° over most of the mainland of the Continent; above 45° on many shores of the Mediterranean, and as high as 52° at Malta. Maxima during day again below 40° in some parts of England, and below 32° over a large area in central, eastern, and northern Europe; thermometer only touching 10° at Hermanstadt and 5° at St. Petersburg. Frost at night very severe in Austria-Hungary, and Russia, and frost occurring in Italy as far south as Naples. Minimum as low as 25° at Athens.

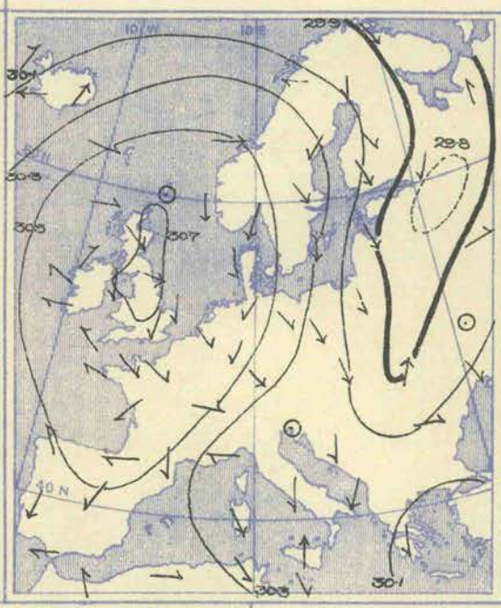
Wind in morning still anticyclonic over these Islands generally and cyclonic both in the north and south of our area. Northerly current strong to a strong gale over Scandinavia, and that from South-West fresh to strong over the Baltic and Finland. Fresh to high Northerly winds general over the western half of the Mediterranean and on the Adriatic. Decreasing somewhat in force in the south later, and also in Scandinavia; veering to the Northward in Finland and the Baltic, and blowing a gale in places.

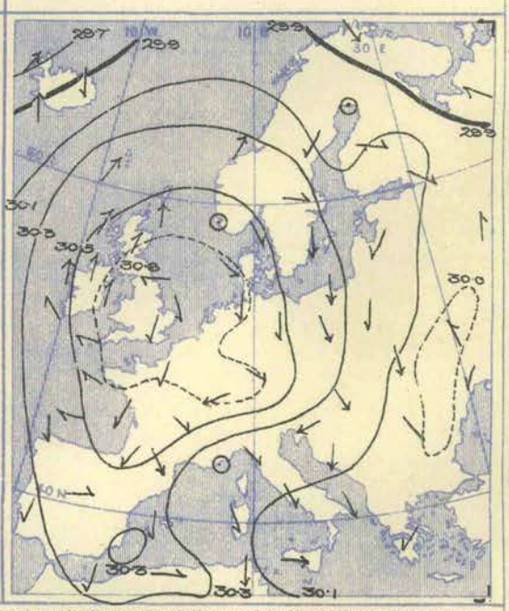
Barometer in morning above 30·7 ins. in Ireland and over the adjacent part of the Atlantic; below 30·1 ins. in a depression centred over the Mediterranean, and below 29·5 ins. in a larger system in the far north of the Continent. A rather important depression in the region of the Azores beginning to move in a North-Easterly direction. No great change later in the general situation, but northern disturbance breaking into two. A fall of the mercury taking place in Iceland.

Wednesday, 8th February, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.







Weather in morning fair to fine in Scotland, Finland, and on the shores of the Gulf of Bothnia, but very cloudy to overcast in most parts of these Islands, northern, and central Europe, with snow at Vardö, Wisby, over a large area in Austria-Hungary, and also at Athens. Fine over the major portion of southern Europe and in Algeria. Some rain later on the north coast of Africa, at Malta, and Palermo, and snow in Scandinavia, and at some stations in Russia, Germany, and Poland.

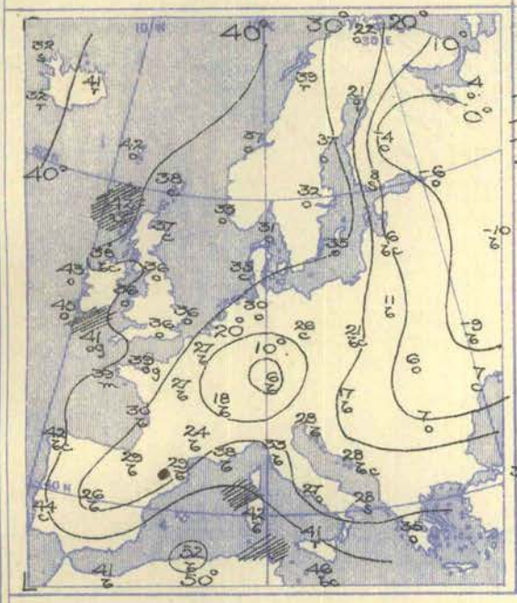
Temperature fallen as a whole, risen in some parts of the west of this country, and at various stations in central Europe. Morning readings from 10° to 19° below zero over central and northern Russia, and sharp to intense frost general over the major portion of the Continent; thermometer as low as 26° at Athens. Below 30° in north Scotland, but about 35° in many parts of England and Ireland. Highest values, 48° at San Fernando, 50° on the coast of Algeria, and 52° at Gibraltar. Maxima during day only about 10° at Hermanstadt and St. Petersburg, and frost continuing all day over a large area on the Continent. Thermometer rising to 40° or rather above at most of our own stations and in the north of France, and to 59° at a few places in the extreme south of our area.

Wind in morning continuing anticyclonic over the United Kingdom and a large area surrounding, and mainly cyclonic in the east and south of Europe. Northerly current strong to a gale at Vardö and over the Baltic region, and fresh to strong over Germany. Direction rather variable over the Mediterranean; a high North-West wind prevailing at Cape de Garde. Increasing considerably in force from South-West in Iceland during day, and Southerly current becoming more decided in Ireland.

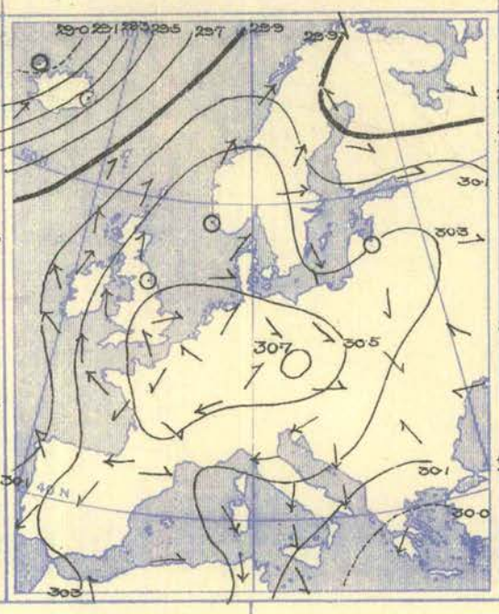
Barometer in morning ranging from above 30·7 ins. these over Islands and the nearer regions of the Continent to below 29·8 ins. in a depression in the neighbourhood of St. Petersburg, and to a similar figure in another on the Atlantic north of the Azores. Pressure giving way very briskly later in Iceland, and beginning to fall rather briskly in the west and north-west of this country. Anticyclonic system beginning to give way slowly and to move Eastward to the Continent.

Thursday, 9th February, 1911.

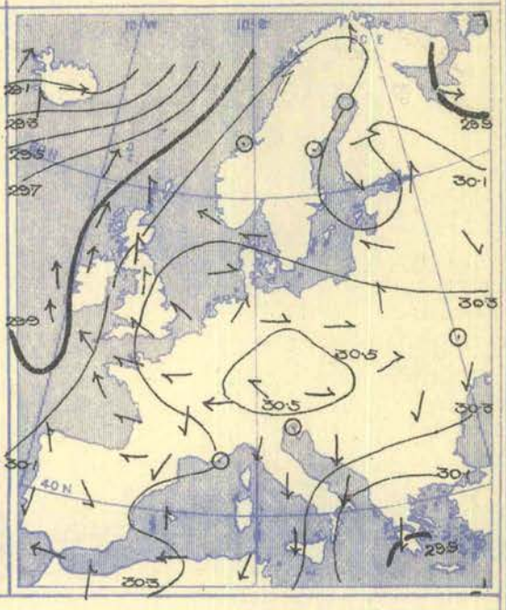
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning still very cloudy to overcast in these Islands and northern and central Europe with snow on some shores of the Baltic and the Gulf of Bothnia. More variable in the south and over the Mediterranean; fine in many places, but rain falling at Tunis and Palermo and snow at Brindisi. Becoming rainy later in some parts of Ireland and the Hebrides, and a little snow falling at Athens and in some parts of Russia.

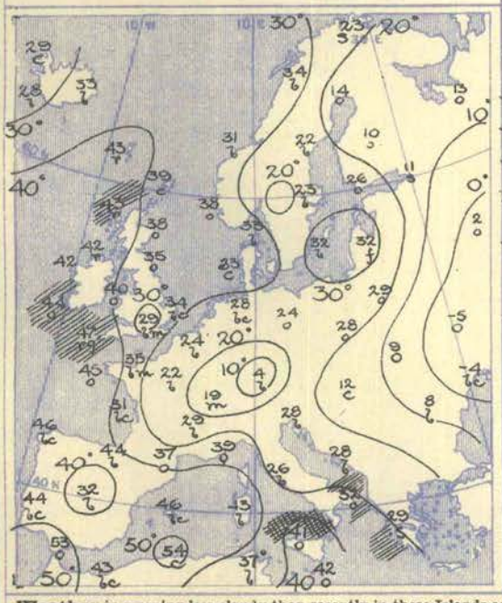
Temperature risen in Ireland, Scotland, and over Scandinavia, fallen in most other regions. Morning readings ranging from below −10° over a large area in Russia, 6° or 7° at Lemberg, Hermanstadt, and Munich, and below 32° over the major portion of the Continent to above 40° in the extreme west and north-west of these Islands, and on most shores of the Mediterranean, and to 52° at Algiers. Thermometer as low as 27° at Naples and 28° at Brindisi. Maximum readings very low over central Europe, and only about 40° in Italy and at Palermo. Frost at night over the greater part of Italy and also at Athens.

Wind in morning light or moderate anticyclonic over all the central regions of our area, cyclonic elsewhere. Southerly current fresh to strong along the western seaboard of these Islands and strong to a gale beyond Ireland. A moderate to strong Northerly wind prevailing on the Mediterranean, and strong to high winds from that quarter on the Adriatic. Southerly wind becoming more decided over the United Kingdom during day.

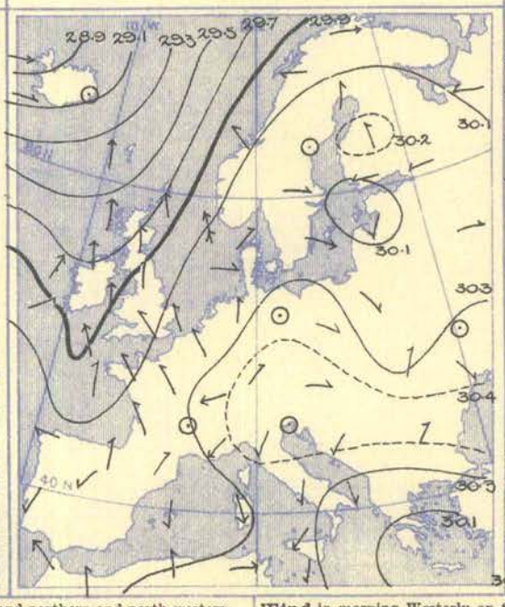
Barometer in morning above 30·7 ins. in a large high pressure system having its maximum over Bavaria; below 29·0 ins. in a depression to the northward of Iceland, and relatively low in other disturbances in the north-east and south-east of our area, and on the Atlantic some distance to the south-west of Ireland. Latter disturbance approaching nearer to these Islands during day, but that in the far north moving away. Anticyclone decreasing somewhat in intensity and at the same time extending in an Easterly direction.

Friday, 10th February, 1911.

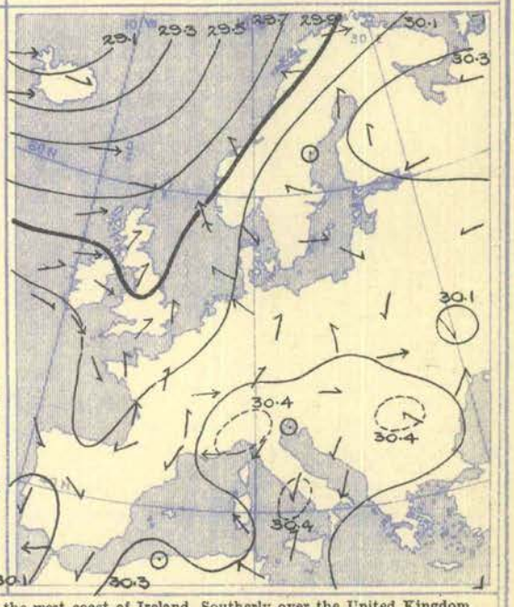
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning less cloudy than recently in these Islands and northern and north-western Europe generally, but rainy or showery at some of our extreme western and north-western stations, and snow falling at Vardö and St. Petersburg. Fair to bright over a large area in France and southern Europe, but snow falling at Athens. Moderate or slight rain later in nearly all parts of the United Kingdom, and a little rain or snow in a few scattered places on the Continent.

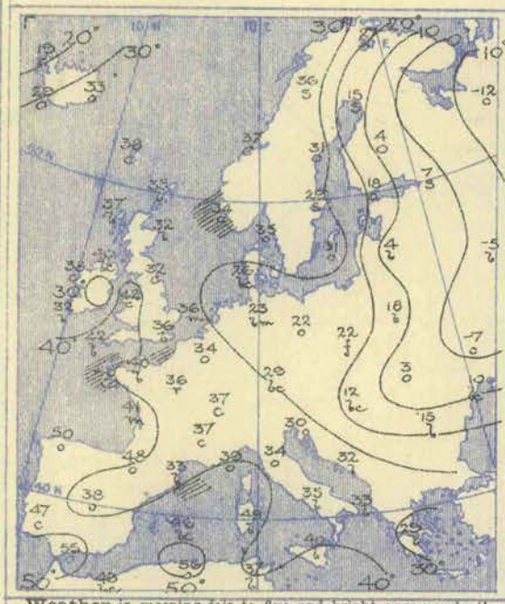
Temperature changed rather irregularly. Readings in morning several degrees below zero in the south of Russia, only 4° at Munich, and below 32° over nearly the whole of France and Italy, and also at Athens; above 40° in Ireland and along the west coast of Britain, as well as on the coasts of the Spanish Peninsula, and touching 50° or slightly higher at San Fernando, Gibraltar, and Algiers. Maxima during day about 40° in the extreme south-east and east of England, but 45° or rather higher in the west and south-west of the Kingdom. Frost continuing all day in the east of our area, and thermometer only touching 40° at Naples and 32° at Athens. Minimum at night as low as 23° at the latter station.

Wind in morning Westerly on the west coast of Ireland, Southerly over the United Kingdom generally and throughout the North Sea region. Fresh to strong on our western coasts, and blowing a gale at Skudesnaes. Wind varying greatly in direction over the Continent, but mostly light or moderate in force. Fresh to strong from the Northward at Brindisi and Athens. Westerly and North-Westerly current extending over England and Scotland during day or at night. Gale continuing at Skudesnaes.

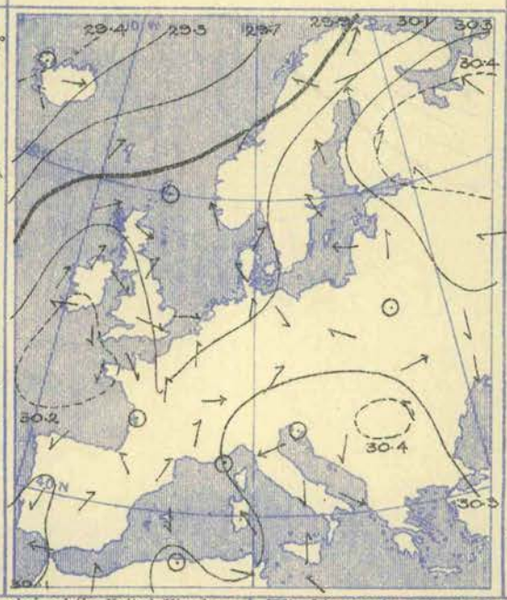
Barometer below 28·9 ins. in a depression in Iceland and relatively low in a "V-shaped" system extending thence across Ireland to the Bay of Biscay. Above 30·4 ins. in an elongated anticyclone stretching from central Europe to the Black Sea, and also over Tunis and its neighbourhood. Depression travelling directly across England during day and maintaining its form with little modification. Main disturbance in the far north moving North-Eastward, and pressure increasing again rather briskly over Iceland and Scotland.

Saturday, 11th February, 1911.

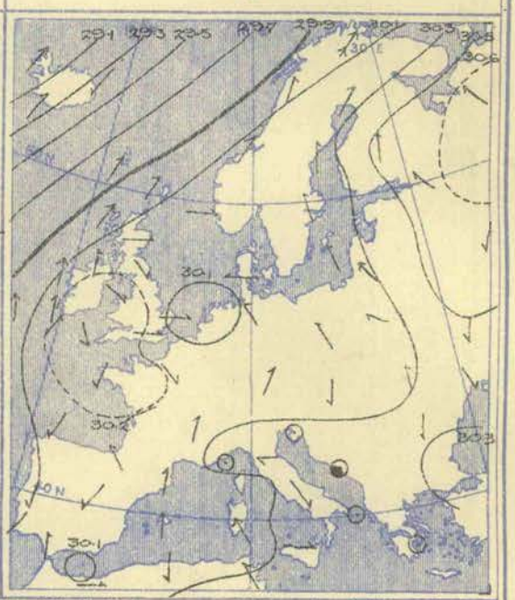
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to fine and bright over nearly the whole of the United Kingdom, but showery at Castlebay and Scilly and rainy at Spurn Head and Dover. Fine at most stations in the Mediterranean and in a few districts elsewhere; cloudy to dull over the Continent generally, with rain at Paris and snow at Nicolaieff and in some northern regions. Some rain later in the extreme east and west of these Islands, as well as in the Netherlands; as much as 0·55 in. at Leghorn, and 2·0 ins. at Gibraltar. Very bright over the greater part of this country.

Temperature risen in England and the nearer countries of the Continent, fallen in Ireland and Scotland. Morning readings below zero over the major portion of Russia, and below 32° over eastern Europe generally, including Athens. Above 35° in many parts of England and France, and above 45° on many shores of the Mediterranean; between 50° and 56° in the south of Spain and 56° at Algiers. Thermometer remaining below 40° on the coast of East Anglia, but rising to between 45° and 50° in the west of these Islands. Frost continuing in Austria-Hungary and eastern and northern Europe, and thermometer falling to below 32° at night at Brindisi and Athens. Maxima above 60° in Algeria and the far south of Spain.

Wind in morning between West and North-West over most of this country, light or moderate except at Spurn Head; South-Westerly on our extreme north-west coasts. A Southerly current prevailing over the Netherlands, Denmark, and Scandinavia, light to strong in force. Light breezes from various quarters general over the Mediterranean and southern Europe. Little change later; Southerly current dying out over the Low Countries and the neighbouring regions. A Southerly wind, strong to a gale, blowing on the Atlantic in Latitude 18°.

Barometer in morning below 29·4 ins. in Iceland, and relatively low in a well-marked "V-shaped" depression extending down the North Sea to the Straits of Dover and the north-east of France; above 30·4 ins. in the south-east and also in the north-east of our area. A large depression existing on the Atlantic to the westward of Ireland, in latitude about 30°. Pressure giving way briskly in Iceland later, but rising over these Islands and the North Sea region; "V-shaped" depression developing into a separate system of little intensity.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	Feb. 8th, 11.39 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	5°, 3		25°, 5	50°, 7				1,000	Two theodolites. 10 St. Balloon disappeared into cloud.
2	Feb. 10th, 12.4 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	170°, 5		190°, 9	225°, 13	245°, 9	245°, 8		2,000	Two theodolites to 800 m. Sky nearly covered with ci-st. No low clouds.
3	Feb. 11th, 10.0 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature .. Humidity .. Wind	276° 88% 330°, 8·9	? ° ? % ? °,	272·7° 70% 350°, 5					270·5 70% 350°, 4·5 800	Clear sky.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites.. ..	—	—	1
Area of Surface (sq. metres) ..	—	—	5·5
Capacity of Balloon (cub. metres	·011	·012	—
Length of Wire (metres)	—	—	1,500

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 7. SEVENTH WEEK, SUNDAY, FEBRUARY 12TH, TO SATURDAY, FEBRUARY 18TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The conditions varied greatly in different parts of the Kingdom. In the extreme west and north rain fell daily, and was generally heavy, while further to the eastward and southward the rain was slight and less frequent, and in the Midlands and east of England the greater part of the week was fair and dry.

Temperature was much above the normal, the excess being between 4° and 5° in nearly all districts except England S.E. and S.W., Ireland S. and the English Channel, and more than 5° in Scotland N. and E. The highest of the maxima occurred at most stations late in the period, and ranged from 59° in the Midland Counties and Scotland E. to 53° in Scotland W. and the English Channel. The lowest of the minima, which were generally recorded on the 12th or 13th, varied from 18° in Scotland E. and 21° in England S.E. and the Midland Counties to 29° in the English Channel. The lowest grass readings were 10° at Llangammarch Wells, 12° at Newton Rigg, and 14° at Balmoral.

Mean Temperature of the Sea. The water was colder than during the corresponding week of last year on several parts of the south-west and south-east coasts, but warmer generally elsewhere. The means for the week ranged from 47·5° at Scilly to 39° or slightly below at Margate and Berwick, and 38° at Cromarty.

Rainfall was rather above the normal in Ireland, considerably above it in Scotland E. and England N.W. and greatly in excess in Scotland N. and W., while in nearly all other districts it was less than the normal. In the north-west of Scotland the total amount was extremely large; as much as 6·94 in. at Glencarron and 5·39 in. at Fort William. More than an inch fell on four days at the former station, and on 3 consecutive days (15th to 17th), at the latter, while at Kilmarnock a similar quantity was recorded on the 17th and 18th. The heaviest daily measurements were 1·59 in. at Glencarron on the 13th, and at least 1·5 in. at Glencarron, Rothesay and Poltalloch on the 17th. At the last-mentioned station the gauge yielded 1·65 in.

Bright Sunshine was below the normal generally, but just equal to it in the Midland Counties, and above it in England E. and S.E. The percentage of the possible duration ranged from 33 in England E. and S.E. to 11 in Scotland W., 9 in Ireland S., and Scotland N.

Barometer and Wind. Large cyclonic disturbances moving eastward or north-eastward over the Icelandic region extended over these islands and caused the wind to blow freshly or strongly from between South and West on many occasions on the west and north-west coasts, and at times over the whole Kingdom. Gales were experienced in nearly all parts of the Kingdom late in the period, and quite at its close the wind shifted to the North-Westward over the northern and north-western districts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 52.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Moderate
	Rainfall ...	Very heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Very heavy	Very heavy	Moderate	Heavy	Moderate	Moderate
	Sunshine ...	Very scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 11 weeks from Dec. 4th, 1910.	Warmth ...	**6** * 0	**6** * 1	**5** * 2	**5** * 1	**5** * 1	**4** * 1	**4** * 1	**5** * 2	**4** * 2	**5** * 2	**3** * 5	**3** * 3
	Rainfall ...	**2** * 5	**1** * 5	**3** * 5	**3** * 3	**2** * 5	**3** * 5	**3** * 4	**2** * 4	**2** * 5	**2** * 7	**2** * 7	**2** * 5
	Sunshine ...	**3** * 2	**5** * 3	**3** * 4	**2** * 3	**3** * 2	**3** * 3	**4** * 6	**5** * 3	**3** * 3	**2** * 3	**2** * 3	**1** * 4

PAST SEASONS.

WINTER, 1909–10. Dec. 5th–March 5th. 13 weeks.	Warmth ...	**1** * 5	**2** * 4	**3** * 4	**4** * 2	**3** * 2	**5** * 4	**3** * 4	**5** * 3	**4** * 4	**3** * 6	**2** * 6	**4** * 4
	Rainfall ...	**4** * 2	**5** * 2	**5** * 2	**6** * 1	**7** * 2	**5** * 2	**6** * 1	**7** * 1	**7** * 2	**6** * 3	**6** * 3	**5** * 3
	Sunshine ...	**10** * 2	**6** * 0	**4** * 2	**7** * 2	**8** * 2	**8** * 2	**5** * 1	**8** * 0	**6** * 1	**4** * 4	**4** * 1	**3** * 3
SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6

9282/450 Wy. & S., Ltd. 2—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SEVENTH WEEK—February 12th to February 18th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	55	28	48·1	37·1	42·6	+ 5·2	25	+18	14	− 27	7	+ 2	3·12	+1·99	6	− 8	9	−13
Eastern																		
1. SCOTLAND, EAST	59	18	48·9	35·8	42·3	+ 5·6	28	+20	17	− 29	6	+ 2	1·00	+0·47	15	− 4	24	− 6
2. ENGLAND, N.E.	57	24	49·1	37·1	43·2	+ 4·8	29	+19	14	− 21	4	+ 1	0·29	−0·06	17	− 2	26	− 3
3. ENGLAND, EAST	58	24	48·6	35·7	42·2	+ 4·0	28	+17	18	− 21	4	+ 1	0·33	−0·03	22	+ 3	33	+ 4
4. MIDLAND COUNTIES	59	21	49·3	37·4	43·4	+ 5·0	29	+16	13	− 26	3	0	0·35	−0·08	17	0	26	0
5. ENGLAND, S.E.	55	21	48·5	35·8	42·2	+ 2·5	27	+13	17	− 13	3	− 1	0·28	−0·19	22	+ 4	33	+ 6
Western																		
6. SCOTLAND, WEST	53	25	48·5	39·1	43·8	+ 5·0	25	+16	8	− 26	7	+ 3	2·96	+2·02	7	− 8	11	−12
7. ENGLAND, N.W.	56	24	48·4	39·3	43·9	+ 4·6	25	+14	8	− 22	5	+ 1	1·29	+0·74	16	− 1	23	− 2
8 ENGLAND, S.W.	56	23	49·1	39·4	44·2	+ 3·2	26	+ 9	7	− 17	5	+ 2	0·72	0·00	12	− 7	17	−10
9. IRELAND, NORTH	55	27	50·8	39·1	45·0	+ 4·6	33	+18	8	− 18	7	+ 3	1·01	+0·36	11	− 6	17	− 9
10. IRELAND, SOUTH	58	25	51·7	39·5	45·6	+ 3·7	36	+15	7	− 14	6	+ 2	0·96	+0·18	6	− 12	9	−19
11. ENGLISH CHANNEL	53	29	49·5	39·4	44·5	+ 0·6	28	+ 4	7	− 4	5	0	0·42	−0·22	15	− 8	22	−11

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 11 Weeks, December 4th, 1910, to February 18th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	55	14	*	*	*	*	135	+ 54	213	−166	59	+ 1	12·63	−1·78	64	− 8	12	− 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	125	+ 42	282	−167	43	− 2	4·74	−1·88	121	+ 8	21	+ 1
2. ENGLAND, N.E.	57	19	*	*	*	*	142	+ 46	247	−112	37	− 2	3·55	−1·18	114	− 7	19	− 1
3. ENGLAND, EAST	58	16	*	*	*	*	149	+ 45	283	−125	45	+ 3	4·82	+0·39	130	− 7	21	− 1
4. MIDLAND COUNTIES.. ..	59	14	*	*	*	*	150	+ 31	274	−135	38	− 3	4·53	−0·95	110	− 6	18	− 1
5. ENGLAND, S.E.	55	16	*	*	*	*	167	+ 15	258	− 43	39	− 3	5·49	−0·38	142	+10	22	+ 2
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	149	+ 30	193	−103	54	+ 3	11·21	−0·83	87	−12	15	− 2
7. ENGLAND, N.W.	57	17	*	*	*	*	144	+ 23	199	− 92	41	− 5	6·33	−1·28	114	+11	19	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	173	− 24	191	− 30	44	− 3	8·46	−1·23	131	− 3	21	− 1
9. IRELAND, NORTH	55	18	*	*	*	*	187	+ 36	179	− 75	49	− 4	5·95	−2·73	116	+ 1	19	0
10. IRELAND, SOUTH	59	18	*	*	*	*	224	− 11	180	− 12	49	− 1	6·96	−3·21	127	− 9	20	− 1
11. ENGLISH CHANNEL	57	29	*	*	*	*	291	− 11	81	+ 2	45	− 8	5·93	−2·27	156	−12	24	− 2

THE YEAR.—Aggregates, &c., for the Period of 7 Weeks, January 1st to February 18th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	55	14	*	*	*	*	67	+ 20	158	− 99	32	− 5	7·67	−1·44	47	− 8	13	− 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	56	+ 3	221	− 72	23	− 5	2·43	−1·55	84	− 2	22	− 1
2. ENGLAND, N.E.	57	19	*	*	*	*	61	0	197	− 37	19	− 6	1·76	−0·95	80	− 7	20	− 2
3. ENGLAND, EAST	58	16	*	*	*	*	44	− 21	235	− 30	25	− 1	2·30	−0·39	98	− 1	24	0
4. MIDLAND COUNTIES.. ..	59	14	*	*	*	*	56	− 21	227	− 35	16	−10	1·33	−2·03	80	− 4	19	− 1
5. ENGLAND, S.E.	55	16	*	*	*	*	42	− 47	218	+ 18	20	− 6	1·87	−1·69	102	+ 11	24	+ 3
Western																		
6. SCOTLAND, WEST	54	18	*	*	*	*	75	+ 4	159	− 41	27	− 5	6·03	−1·17	60	− 13	15	− 3
7. ENGLAND, N.W.	56	17	*	*	*	*	56	− 16	172	− 20	18	−11	2·63	−1·97	83	+ 8	20	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	57	− 60	168	+ 17	20	− 9	2·45	−3·17	96	+ 3	23	+ 1
9. IRELAND, NORTH	55	18	*	*	*	*	91	− 5	152	− 15	24	− 9	3·00	−2·25	87	+ 6	22	+ 1
10. IRELAND, SOUTH	59	18	*	*	*	*	110	− 34	162	+ 36	24	− 7	2·87	−3·18	93	− 1	23	0
11. ENGLISH CHANNEL	53	29	*	*	*	*	111	− 62	81	+ 21	22	−11	2·21	−2·49	105	− 12	24	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*48*	*16th*	*31*	*18th*	*45·0*	*36·6*	*40·8*	—	*8*	*21*	7	*1·86*	—	*14·0*	—	*23*	—	*Baltasound.*
	a Sumburgh Head ..	50	14th	32	18th	47·4	34·1	40·8	+ 2·8	15	32	7	1·91	+ 1·15	5·4	− 8·0	9	−13	Deerness.
	a Stornoway	52	16th	33	16th	49·4	38·4	43·9	+ 5·0	28	10	7	1·69	+ 0·65	7·4	− 7·3	12	−12	Stornoway.
	a Castlebay, Barra Isd.	*51*	*16th*	*37*	*15th*	*49·3*	*42·6*	*45·7*	+ *4·3*	*26*	*0*	7	*1·16*	—	*6·7*	—	*11*	—	*Castlebay.*
	a Wick	52	16th	28	12th	48·0	34·9	41·5	+ 4·0	17	29	7	1·08	+ 0·53	*	*	*	*	* *
b, Mainland.	*p* Strathpeffer.. ..	55	16th	30	12th	48·8	37·5	43·2	+ 6·0	27	13	7	1·87	+ 1·21	7·0	8·0	11	−13	Strathpeffer.
	p Glencarron .. S	50	16th	33	15th	46·5	38·3	42·4	+ 5·9	18	10	7	6·94	+ 5·15	*	*	*	*	* *
	p Fort Augustus S	53	16th	31	12th	48·0	37·9	43·0	+ 5·0	24	11	7	2·93	+ 1·91	3·2	− 6·9	5	−11	Fort Augustus.
	p Fort William S	53	17th, 18th	35	12th, 15th	48·5	38·8	43·7	+ 4·6	25	9	7	5·39	+ 3·59	*	*	*	*	* *
1. SCOTLAND, E.	*p* Gordon Castle S	58	16th	32	12th	50·7	35·8	43·3	+ 5·0	35	17	7	0·79	+ 0·27	*12·5*	—	*20*	—	*Gordon Castle.*
	a Nairn	55	16th	30	12th	49·1	36·0	42·6	+ 5·2	29	17	7	1·17	+ 0·72	9·9	—	16	—	Nairn.
	a Aberdeen	59	16th	27	12th	50·1	37·1	43·6	+ 5·7	32	14	5	0·48	− 0·05	16·1	− 1·6	25	− 3	Aberdeen.
	a Balmoral .. S	52	16th	18	12th	47·9	33·9	40·9	+ 6·9	17	32	6	0·42	− 0·24	19·8	—	31	—	Crathes S.
	p Crieff .. .. S	55	16th	28	12th	48·9	36·1	42·5	+ 4·6	28	17	6	1·48	+ 0·65	16·7	—	26	—	Balruddery
	a Leith	55	16th	27	12th	51·3	37·9	44·6	+ 5·4	35	11	5	0·61	+ 0·24	*	*	*	*	Edinburgh.
	p West Linton.. S	50	16th	21	12th	45·7	33·8	39·8	+ 3·3	10	32	7	2·40	—	*11·2*	—	*17*	—	*West Linton.*
	p Marchmont .. S	53	16th	25	12th	47·4	35·4	41·4	+ 4·4	15	27	4	0·67	+ 0·15	13·1	− 2·9	20	− 4	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	55	18th	25	12th	49·7	36·8	43·3	+ 5·2	31	15	5	0·39	− 0·09	19·7	—	30	—	Cockle Park.
	a Shields	57	18th	28	13th	50·9	35·7	43·3	+ 4·4	36	18	4	0·44	+ 0·09	*8·4*	− *3·4*	*13*	− *5*	*Newcastle.*
	p Durham	54	18th	27	12th	48·7	36·7	42·7	+ 5·2	27	15	4	0·27	− 0·07	16·0	− 0·2	24	0	Durham.
	p Rounton .. M	57	18th	24	12th	49·5	37·1	43·3	+ 6·0	30	14	4	0·22	− 0·16	*	*	*	*	* *
	p Scarborough.. M	53	17th	32	12th	49·0	39·1	44·1	+ 4·9	27	8	5	0·36	− 0·08	15·7	—	24	—	Scarborough.
	p York	57	18th	28	12th	49·9	37·1	43·5	+ 5·0	31	14	5	0·40	+ 0·01	12·4	− 1·6	19	− 2	York.
b, South.	*a* Spurn Head	54	18th	33	13th	47·3	36·6	42·0	+ 3·1	15	15	3	0·14	− 0·16	*	*	*	*	* *
	a Lincoln	57	18th	25	12th	49·0	36·7	42·9	+ 4·5	29	15	3	0·20	− 0·16	22·2	—	33	—	Skegness.
	a Fulbeck	53	17th	28	12th	48·1	38·4	43·3	+ 4·7	24	10	2	0·17	− 0·20	15·3	—	23	—	Rauceby.
															23·2	—	*35*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	55	18th	32	12, 13, 14th	47·6	36·4	42·0	+ 4·7	16	16	6	0·39	—	22·6	—	34	—	Cromer.
	p Hillington .. M	55	18th	24	13th	48·7	34·1	41·4	+ 3·4	19	32	3	0·51	+ 0·09	22·4	+ 5·0	33	+ 7	Hillington.
	a Yarmouth	56	18th	29	13th	47·7	36·6	42·2	+ 4·3	24	15	5	0·41	+ 0·07	22·3	—	33	—	Yarmouth.
	a Norwich	56	18th	27	13th	48·3	35·9	42·1	+ 4·1	26	17	4	0·36	—	*	*	*	*	* *
	p Geldeston	58	18th	28	13th	49·3	36·3	42·8	+ 4·2	30	16	4	0·28	− 0·07	23·2	+ 5·0	35	+ 7	Geldeston.
	p Cambridge	56	18th	27	12th	50·3	35·2	42·8	+ 4·1	34	19	3	0·21	− 0·13	25·8	+ 7·5	39	+11	Cambridge.
b, South.	*a Felixstowe*	*54*	*18th*	*28*	*13th*	*48·0*	*35·1*	*41·6*	+ *2·9*	*17*	*29*	*4*	*0·19*	—	*26·3*	—	*39*	—	*Felixstowe.*
	a Clacton-on-Sea ..	55	17th	29	14th	48·1	34·7	41·4	+ 2·7	17	30	3	0·17	—	24·9	—	37	—	Clacton.
	a Rothamsted ..	55	17th	27	14th	49·0	34·1	41·6	+ 3·6	20	33	2	0·25	− 0·19	21·5	+ 4·7	32	+ 7	Rothamsted.
	a Shoeburyness ..	*55*	*17th, 18th*	*27*	*13th*	*48·6*	*34·9*	*41·8*	+ *2·6*	*18*	*30*	*3*	*0·15*	− *0·13*	*25·2*	—	*37*	—	*Southend.*
	p Tottenham	55	18th	28	14th	48·6	38·2	43·4	+ 4·0	26	11	3	0·35	—	15·4	—	23	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	51	18th	29	12th	47·3	37·8	42·6	+ 5·3	22	12	4	0·84	+ 0·31	16·7	—	25	—	Harrogate.
	a Bawtry	59	18th	26	12th	50·1	37·9	44·0	+ 5·4	31	11	3	0·16	− 0·21	15·3	+ 1·3	23	+ 2	Worksop.
	p Buxton .. M	*51*	*18th*	*27*	*12th*	*45·5*	*36·6*	*41·1*	+ *5·3*	*10*	*22*	*5*	*1·87*	− *0·92*	*17·8*	—	*27*	—	*Buxton.*
	a Nottingham ..	55	18th	25	12th	49·6	36·4	43·0	+ 4·5	31	16	4	0·32	− 0·08	15·1	—	23	—	Nottingham.
	p Birmingham, Edgbsn	55	17th, 18th	32	12th	48·8	40·0	44·4	+ 6·1	25	6	3	0·30	− 0·12	14·2	—	21	—	Birmingham.
	a Raunds .. M	57	18th	26	12th	50·3	34·6	42·5	+ 4·1	35	21	3	0·22	—	*	*	*	*	* *
	a Oxford	56	17th	28	12th, 13th	49·9	36·9	43·4	+ 4·0	31	14	3	0·18	− 0·22	18·8	+ 2·4	28	+ 4	Oxford.
b, West.	*a* Cheadle .. M	53	18th	31	12th, 13th	46·6	36·8	41·7	+ 4·3	13	21	3	0·46	− 0·04	18·9	—	28	—	Sheffield.
	p Shrewsbury	55	17th, 18th	29	12th	50·0	40·6	45·3	+ 5·8	29	4	3	0·23	—	*	*	*	*	* *
	a Hereford .. M	57	18th	25	12th	50·3	37·7	44·0	+ 4·8	32	12	3	0·28	− 0·22	*	*	*	*	* *
	a Cirencester	55	18th	21	12th	49·1	34·5	41·8	+ 3·8	20	31	4	0·43	− 0·07	18·3	+ 0·8	27	+ 1	Cirencester.
	a Bath	55	18th	25	12th	50·7	38·7	44·7	+ 4·5	33	9	4	0·42	− 0·09	19·4	—	29	—	Bath.
															23·1	—	*34*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	55	18th	27	14th	49·2	37·3	43·3	+ 3·8	29	13	3	0·28	− 0·10	21·3	+ 7·6	31	+11	Kew.
	a Marlborough ..	52	18th	24	12th	48·3	34·9	41·6	+ 3·3	18	29	5	0·47	− 0·09	16·3	+ 1·7	24	+ 3	Marlborough.
	a Margate	54	17th	31	14th	48·5	36·8	42·7	+ 3·0	27	15	2	0·18	− 0·18	20·6	+ 3·1	30	+ 5	Margate.
	a Wisley, Surrey ..	55	17th	28	14th	49·4	36·9	43·2	+ 3·4	30	14	3	0·25	—	22·9	—	34	—	Wisley.
	a Swarraton .. M	54	17th	21	12th	48·5	30·8	39·7	+ 1·2	18	44	4	0·24	− 0·31	20·3	—	30	—	Worthing.
	a Tunbridge Wells M	53	17th	27	12th	47·0	33·8	40·4	+ 1·8	14	32	3	0·26	− 0·28	25·1	+ 8·7	37	+13	Tunbridge Wells.
	a Dungeness	52	15th	22	14th	46·9	32·3	39·6	0·0	14	37	3	0·31	− 0·07	25·4	—	37	—	Littlestone.
	p Hastings	54	17th	29	12th	47·0	37·4	42·2	+ 2·3	21	13	4	0·25	− 0·25	*29·2*	+ *9·3*	*43*	+*14*	*Hastings.*
	p Southampton ..	58	17th	27	12th	50·5	38·5	44·5	+ 3·4	32	10	3	0·27	− 0·25	19·3	+ 0·9	28	+ 1	Southampton.
	a Ventnor	53	17th	33	12th, 14th	49·4	39·4	44·4	+ 2·6	28	7	3	0·25	− 0·26	22·0	+ 2·3	32	+ 3	Ventnor.
															29·7	+11·3	44	+17	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*55*	*17th, 18th*	*27*	*14th*	*49·7*	*36·6*	*43·2*	+ *3·7*	*31*	*15*	*3*	*0·25*	− *0·14*	*16·2*	+ *8·0*	*24*	+*12*	*Westminster.*
	a Greenwich	*55*	*17th, 18th*	*26*	*14th*	*49·0*	*35·3*	*42·2*	+ *2·8*	*30*	*19*	*3*	*0·31*	− *0·06*	*16·9*	+ *2·8*	*25*	+ *4*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*a* Poltalloch .. S	50	15, 16, 17th	32	12th	47·7	40·6	44·2	+ 5·4	21	4	7	4·56	+ 3·67	*	*	*	*	* *
	p Glasgow	52	16th	33	12th	48·4	39·4	43·9	+ 5·3	24	7	6	3·24	+ 2·57	6·1	− 4·4	9	− 7	Glasgow.
	p Rothesay .. S	52	16th	31	12th	48·9	39·1	44·0	+ 4·4	26	8	7	3·87	+ 2·99	*	*	*	*	* *
	a Kilmarnock	53	18th	26	12th	49·3	36·7	43·0	+ 4·2	29	15	7	3·65	—	*6·8*	—	*11*	—	*Kilmarnock.*
	a Colmonell .. S	53	16th	26	12th	49·0	38·4	43·7	+ 5·3	27	10	7	2·59	+ 1·70	*	*	*	*	* *
	p Dumfries .. S	51	17th, 18th	25	12th	47·4	38·6	43·0	+ 4·2	21	10	7	1·58	+ 0·82	*7·2*	—	*11*	—	*Dumfries.*
	p Cally, Gatehouse S	50	17th. 18th	26	12th	48·7	38·7	43·7	+ 5·2	26	9	7	2·29	+ 1·29	*	*	*	*	* *
b, ISLE OF MAN ..	*p* Douglas	53	18th	35	12th	48·2	41·4	44·8	+ 4·5	22	2	6	1·86	+ 1·06	8·0	− 9·0	12	−14	Douglas.
															20·7	—	31	—	Hoylake.
7. — a, ENGLAND, N.W...	*p* Aspatria	50	17th, 18th	29	12th	46·9	39·1	43·0	+ 5·3	19	8	7	2·22	+ 1·65	12·3	—	19	—	Aspatria.
	p Newton Rigg ..	53	17th	24	12th	48·1	37·2	42·7	+ 6·1	25	13	6	1·27	+ 0·54	11·7	− 3·2	18	− 5	Newton Rigg.
	p Stonyhurst	52	18th	26	12th	46·8	38·4	42·6	+ 4·4	19	10	7	2·44	+ 1·64	14·0	− 0·2	21	− 1	Stonyhurst.
	p Blackpool .. M	49	17th, 18th	24	12th	46·4	38·3	42·4	+ 3·4	18	10	5	1·05	+ 0·50	15·3	− 0·2	23	0	Blackpool.
	p M'nch'ster, Prestwich	54	18th	29	12th	48·2	39·5	43·9	+ 5·5	24	7	6	1·51	+ 0·95	*9·9*	+ *0·1*	*15*	*0*	*Prestwich.*
	a Liverpool (Bidston)	54	17th, 18th	35	12th	49·7	39·6	44·7	+ 5·4	29	7	4	0·62	+ 0·19	*21·1*	—	*32*	—	*Liverpool.*
	a Hawarden Bridge ..	56	17th	32	12th	50·9	39·0	45·0	+ 4·8	34	8	4	0·30	− 0·06	*16·7*	+ *0·5*	*25*	+ *1*	*Southport.*
															22·1	—	*33*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	55	18th	32	12th	50·1	42·1	46·1	+ 4·7	29	0	4	0·57	+ 0·07	17·2	+ 0·1	26	0	Llandudno.
	a Holyhead	51	17th	37	12th	48·6	41·6	45·1	+ 3·7	23	1	5	0·91	+ 0·33	16·8	—	25	—	Aberdovey.
	p Bettws-y-Coed ..	52	17th	27	12th	48·4	38·0	43·2	+ 2·7	25	11	6	1·99	—	15·6	—	23	—	Bettws-y-Coed.
															17·2	—	26	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	54	17th	25	12th	47·9	35·1	41·5	+ 3·5	17	28	6	1·41	—	11·7	—	18	—	Llangammarch Wells.
	a Pembroke	50	16th, 18th	36	12th	48·3	41·1	44·7	+ 2·7	23	3	6	0·48	− 0·16	10·2	− 8·3	15	−12	Pembroke.
	p Cardiff	53	18th	30	12th	49·0	39·8	44·4	+ 4·6	26	6	6	1·02	+ 0·29	*14·0*	—	*21*	—	*Cardiff.*
															11·8	− *7·6*	*17*	− *11*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	54	18th	28	12th	49·4	39·0	44·2	+ 4·1	28	8	5	0·80	+ 0·23	*10·8*	—	*16*	—	*Clifton.*
	a Shaftesbury .. M	53	17th	26	12th	47·5	36·2	41·9	+ 3·5	15	25	5	0·33	− 0·24	*	*	*	*	* *
	a Arlington	51	15th, 18th	25	12th	48·3	37·0	42·7	+ 3·4	26	14	5	1·31	+ 0·38	7·0	−12·4	10	−18	Newquay.
	a Cullompton .. M	56	15th, 17th	23	12th	52·1	38·7	45·4	+ 5·0	38	9	5	0·42	− 0·25	16·3	− 0·6	24	− 1	Cullompton.
	a Portland Bill ..	51	15th	35	12th	48·3	42·3	45·3	+ 3·7	23	0	3	0·14	—	*21·7*	—	*32*	—	*Weymouth.*
	p Plymouth	55	17th	28	12th	50·2	41·1	45·7	+ 3·6	30	3	6	0·47	− 0·19	9·3	− 9·5	14	−14	Plymouth.
	p Falmouth	53	17th	34	12th	49·6	43·3	46·5	+ 3·4	32	0	4	0·78	− 0·09	10·2	−10·2	15	−15	Falmouth.
															17·4	− *1·5*	*26*	− *2*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	51	15th, 16th	35	12th	49·4	40·6	45·0	+ 4·2	27	4	7	0·95	+ 0·41	*	*	*	*	* *
	a Blacksod Point ..	52	15, 16, 17th	35	15th	50·7	41·7	46·2	+ 3·6	31	1	7	1·57	+ 0·68	*	*	*	*	* *
	p Markree Castle ..	55	16th	28	15th	51·5	38·9	45·2	+ 5·2	35	9	7	0·99	+ 0·23	9·9	− 5·3	15	− 8	Markree Castle.
	a Birr Castle	54	17th, 18th	27	15th	51·7	35·6	43·7	+ 3·4	39	18	6	0·94	+ 0·42	*8·9*	− *7·2*	*13*	−*11*	*Birr Castle.*
b, East.	*p* Armagh	53	18th	32	12th	50·3	38·9	44·6	+ 4·8	31	9	5	0·96	+ 0·44	12·4	− 2·7	19	− 4	Armagh.
	a Donaghadee	55	18th	33	12th	50·9	39·0	45·0	+ 4·4	34	8	7	0·65	+ 0·09	*	*	*	*	* *
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	57	18th	32	12th	52·0	42·1	47·1	+ 4·9	36	0	6	0·39	− 0·11	13·9	− 3·9	21	− 6	Phœnix Park.
	a Kilkenny	58	18th	25	12th	51·6	37·1	44·4	+ 3·5	37	14	6	0·99	+ 0·35	*	*	*	*	* *
	a Waterford	54	17th	25	12th	50·4	37·7	44·1	+ 2·6	33	12	4	0·79	− 0·02	*	*	*	*	* *
b, West.	*a* Birr Castle	54	17th, 18th	27	15th	51·7	35·6	43·7	+ 3·4	39	18	6	0·94	+ 0·42	8·9	− 7·2	13	−11	Birr Castle.
	a Foynes	54	16, 17, 18th	34	15th	52·4	42·0	47·2	+ 4·7	36	0	6	0·91	+ 0·16	*	*	*	*	* *
	a Cahir .. .. M	56	17th	27	12th	51·1	37·7	44·4	+ 3·0	35	12	6	1·57	—	*	*	*	*	* *
	a Killarney	58	17th	32	12th	53·2	41·2	47·2	+ 4·6	40	2	6	0·99	− 0·25	*	*	*	*	* *
	a Valencia	55	18th	30	12th	52·3	40·9	46·6	+ 2·3	37	3	7	1·21	− 0·02	0·9	−16·7	1	−25	Valencia.
	a Roche's Point ..	53	17th	33	12th	49·7	41·0	45·4	+ 2·0	28	3	7	0·82	− 0·09	0·8	—	1	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	53	18th	37	12th, 13th	50·4	43·0	46·7	+ 1·5	33	0	5	0·75	+ 0·10	8·7	−12·3	13	−18	Scilly.
	a Jersey, St. Aubins ..	52	16th, 18th	29	14th	48·9	36·1	42·5	− 0·2	28	17	3	0·21	− 0·36	20·6	− 2·0	30	− 3	St. Heliers.
	a Guernsey	51	12, 17, 18th	33	14th	49·3	39·0	44·2	+ 0·8	28	8	6	0·30	− 0·35	15·8	− 5·5	23	− 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 20·3 hrs.* (+ *1·5 hrs.*), *30* % (+ *2* %); *Bournemouth, 24·2 hrs., 36* %; *Bognor, 25·0 hrs., 37* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp At 1 foot.	Mean Earth Temp At 4 feet.
			°	°	°
0.	Baltasound	—	—	39·4	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·5
	Crathes	3	15	37·0	38·0
	Balmoral	4	14	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	2	23	37·3	—
2.	Cockle Park	4	23	38·2	39·0
	Durham	3	19	—	—
	York	—	—	38·6	40·9
	Hull	3	21	38·4	41·0
	Lincoln	—	—	37·1	39·8
	Rauceby	3	21	39·2	41·7
3.	Norwich	4	23	—	—
	Yarmouth	—	—	37·7	41·0
	Lowestoft	3	25	38·3	40·6
	Cambridge	5	20	38·5	41·0
	Clacton-on-Sea ..	4	16	39·6	43·0
	Southend	4	19	39·1	—
	Tottenham	4	22	—	42·0
4.	Harrogate	3	24	38·6	39·4
	Huddersfield ..	1	23	37·2	40·0
	Buxton	4	21	37·2	40·1
	Sheffield	2	27	38·0	40·0
	Nottingham.. ..	3	20	38·7	38·2
	Birmingham.. ..	1	25	40·2	42·9
	Oxford	2	21	—	—
	Hereford	3	18	—	—
	Cirencester	2	21	38·9	40·8
	Bath	—	—	39·6	41·6
5.	Margate	2	?	38·6	41·0
	Greenwich	4	21	—	—
	Westminster ..	5	21	—	—
	Kew	4	17	38·2	41·6
	Canterbury	5	25	38·1	42·5
	Tunbridge Wells ..	5	18	36·9	—
	Wisley	3	18	38·7	40·7
	Worthing	5	21	39·0	42·0
	Portsmouth	2	21	40·3	43·0
6.	Glasgow	2	26	—	—
	Rothesay	—	—	—	41·8
	Colmonell	1	24	—	—
6.	Dumfries	1	21	38·9	40·0
	Douglas	2	28	—	—
7.	Aspatria	2	18	39·6	41·9
	Newton Rigg ..	3	12	39·0	39·9
	Burnley	2	17	37·8	40·1
	Southport	3	19	38·6	39·3
	Manchester City ..	1	29	38·6	41·1
	Bettws-y-Coed ..	1	26	39·9	42·0
8.	Llangammarch Wells	4	10	39·3	42·3
	Cardiff	1	21	39·5	41·1
	Clifton	2	23	—	—
	Plymouth	1	21	41·7	—
9.	Armagh	2	24	41·3	42·7
	Markree	2	22	42·5	43·7
10.	Dublin, Trin. Coll. ..	2	20	41·7	42·5
11.	Guernsey, Brooklyn	4	18	41·8	44·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	43	41	42·2
	Wick	44	43	43·9
SCOTLAND, E.	Cromarty	40	37	38·1
	Pennan Bay	41	39	40·0
	Aberdeen, Cove Bay	43	41	41·5
ENGLAND, N.E.	Burnmouth, Berwick ..	39	38	38·7
	Scarborough	46	40	42·5
ENGLAND, E.	Shipwash Lightship ..	41	39	40·0
	Margate‡	41	38	39·0
ENGLAND, S.E.	Eastbourne‡	42	38	39·9
SCOTLAND, W.	Lamlash	45	44	44·2
	Ballantrae	43	42	42·9
ENGLAND, N.W.	Port Erin	46	44	44·6
ENGLAND, S.W.	Newquay	46	45	45·1
	Scilly	49	46	47·5
	Plymouth‡	46	46	45·6
	Salcombe	48	44	45·2
IRELAND, N.W.	Sheephaven	46	45	45·1
	Teelin	46	43	44·5
IRELAND, S.W.	Cleggan	46	41	44·5
	Seafield	48	43	45·2
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

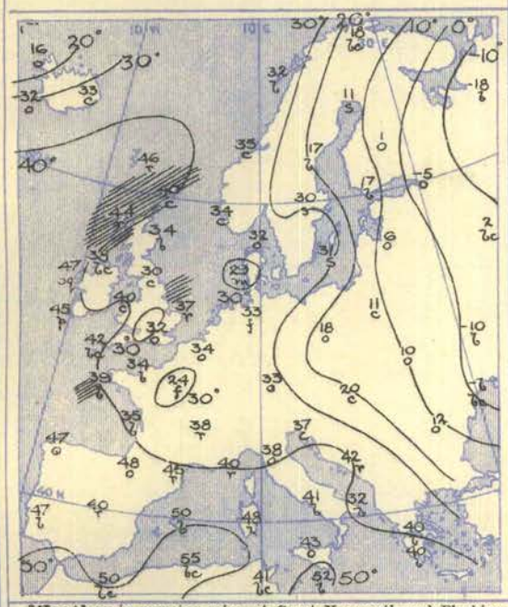
CORRECTIONS AND ADDITIONS FOR JANUARY, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

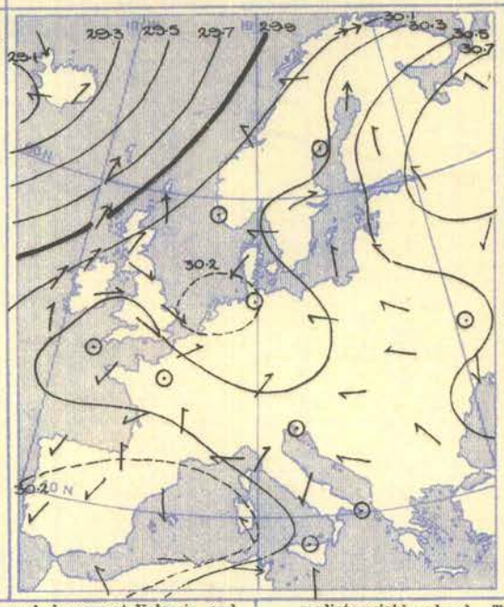
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week, Of Highest each day.	Mean for the Week, Of Lowest each Day.	Mean for the Week, For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Accumulated Heat for the Week (in Day-degrees). Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 1, p. 10	4. Midland Cos.	—	—	—	—	—	—	—	—	—	—	—	—	—	7	− 1	13	− 2
Station Values.— Additions.																		
No. 1, p. 11	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	13·0	—	25	—
No. 3, p. 27	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	7·9	—	14	—
No. 4, p. 35	Buxton	48	25,26,28	33	22nd	44·1	37·7	41·0	+5·6	6	17	1	0·08	−0·96	8·6	—	15	—
No. 4, p. 35	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	5·9	−8·6	10	−15
No. 5, p. 43	Cromer	42	29, 4	26	1st	40·2	31·1	35·7	−1·2	0	44	3	0·03	—	24·0	—	39	—
Station Values.— Corrections.																		
No. 1, p. 11	Nottingham	—	—	—	—	—	—	—	—	—	—	—	—	—	3·3	—	6	—
No. 1, p. 11	Hereford	—	1st, 7th	—	—	42·0	—	37·1	−1·4	—	34	—	—	—	—	—	—	—
No. 1, p. 11	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	11·9	—	22	—
No. 1, p. 11	Newton Rigg	—	—	—	—	39·7	—	35·0	−2·0	—	49	—	—	—	—	—	—	—
No. 1, p. 11	Shaftesbury	—	1st, 7th	—	—	40·1	—	36·0	−2·0	—	42	—	—	—	—	—	—	—
No. 1, p. 11	Plymouth	—	—	—	—	—	33·8	39·8	−2·9	—	33	—	—	—	—	—	—	—
No. 2, p. 19	Tottenham	—	—	—	—	45·0	—	40·4	+1·6	5	27	—	—	—	—	—	—	—
No. 2, p. 19	Raunds	—	—	—	—	43·0	—	37·6	+0·4	3	39	—	—	—	—	—	—	—
No. 2, p. 19	Cheadle	—	—	—	—	—	32·7	37·1	+0·4	0	34	—	—	—	—	—	—	—
No. 2, p. 19	Hastings..	—	—	—	—	—	—	—	—	—	—	—	—	—	20·0	+6·8	36	+12
No. 2, p. 19	Westminster	—	—	—	—	—	—	—	—	—	—	—	—	—	3·6	−0·1	7	0
No. 2, p. 19	Kilmarnock	—	—	—	—	46·4	—	39·3	−0·6	12	42	—	—	—	6·0	—	12	—
No. 2, p. 19	Shaftesbury	—	—	—	—	—	32·8	37·3	−0·5	—	33	—	—	—	—	—	—	—
No. 2, p. 19	Plymouth	—	—	—	—	—	37·7	42·0	−0·3	11	12	—	—	—	—	—	—	—
No. 2, p. 19	Markree	—	—	—	8th,11th	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 3, p. 27	Durham	—	—	—	—	—	—	—	—	—	—	0	0·00	−0·34	—	—	—	—
No. 3, p. 27	Cheadle	—	—	—	—	—	31·6	36·8	+0·2	—	36	—	—	—	—	—	—	—
No. 3, p. 27	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	4·7	−6·8	8	−12
No. 4, p. 35	Hastings	—	—	—	—	—	—	—	—	—	—	—	—	—	13·0	−1·7	22	− 3
No. 4, p. 35	Stonyhurst	—	—	—	—	—	—	—	—	—	—	5	0·29	−0·62	—	—	—	—
No. 5, p. 43	Plymouth	49	31st	—	—	44·2	—	39·5	−2·5	6	27	—	—	—				
												Grass Min. No. of Days.	Grass Min. Lowest reading			Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 fee	
Station Values.— Additions.																		
No. 1, p. 12	Bath											—	—			39·8	44·7	
No. 3, p. 28	Bath											—	—			37·1	42·7	
Station Values.— Corrections.																		
No. 2, p. 20	Durham											5	23			—	—	
No. 3, p. 28	Dublin, Trin. Col. ..											—	—			39·5	—	

Sunday, 12th February, 1911.

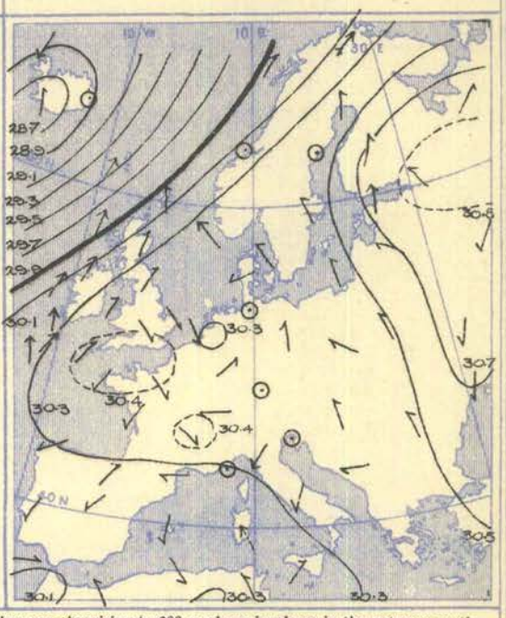
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy at Great Yarmouth and Flushing, and showery at Valencia, and Stornoway, but fair to fine over this country and its vicinity generally. Condition variable over the greater portion of the Continent; mostly fine in the south, but rainy in places, and overcast over a large area in the centre and north, with snow at Prague and in Sweden. Rain in most parts of Ireland and Scotland during day, and also over the southern departments of France and in the Netherlands, and rain or snow in Switzerland, the east of France, and the north of Italy.

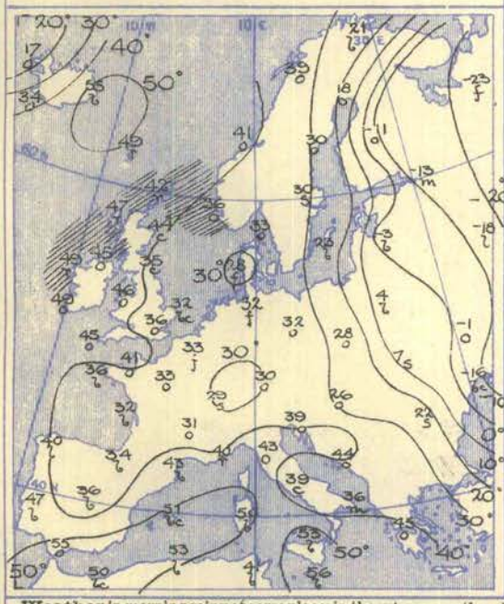
Temperature changed rather irregularly; risen in the west and north of these Islands, fallen at most English stations. Morning readings ranging from above 50° at Barcelona and at a few stations further south to below 32° in the south-east of England and over the major portion of the Continent, and to much below zero over a large area in Russia. Thermometer above 45° on the west coast of Ireland. Maxima during day between 45° and 50° over most of this country and a wide area in France, but much lower over the central countries; below 32° in Austria-Hungary, and only 34° at Turin. Intense frost continuing in Russia and its immediate neighbourhood. Thermometer rising to 60° or above in places in the extreme south of our area.

Wind in morning varying much in direction, and generally light in force. South-Westerly in the north-west of our area, and fresh to strong in places. A gale from West-South-West prevailing at Vardö. A feeble cyclonic movement shown over the Netherlands and the regions immediately surrounding, and light anticyclonic winds in the north-east of Europe. South-Westerly current increasing somewhat in force during day in the far north-west of these Islands, and a high wind from North-East setting in at Isafjord.

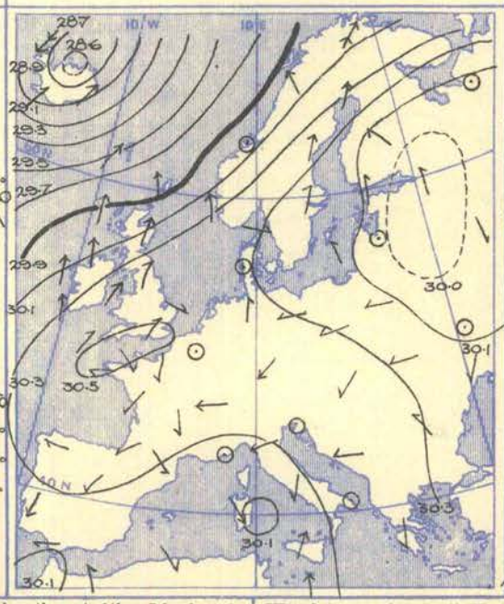
Barometer in morning below 29·1 in. off the south-west of Iceland and below 29·2 in. in a shallow depression centred over Holland. Above 30·7 in. in a large anticyclone extending over northern Russia and Finland from the north-eastward, and relatively high in an irregularly shaped area extending from the Black Sea to the south-west of England. Pressure decreasing very briskly in Iceland during day, and gradient becoming steep between that Island and Scotland. Netherlands depression dispersing.

Monday, 13th February, 1911.

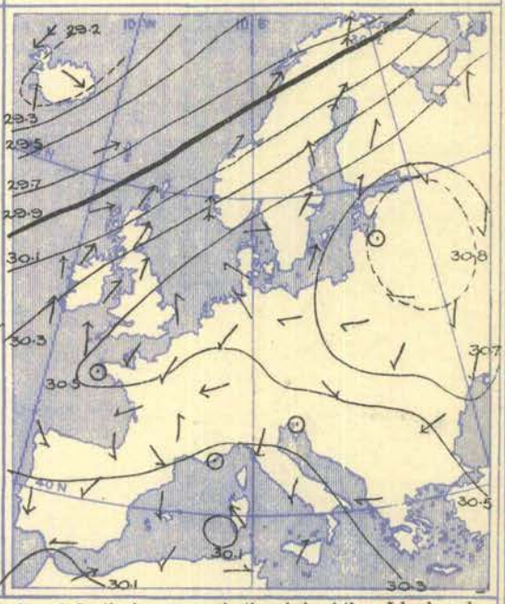
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy at some places in the extreme north and north-west of these Islands, and at Nice, Cape Sicié, and Barcelona, and snow falling at Belfort and Turin, as well as at some stations in central Europe, and also at Stockholm. Fine and bright on many shores of the Mediterranean and over most of the Spanish Peninsula and France, and also at various stations in Russia. Fog and mist prevalent in the Netherlands and Denmark. Rain experienced later in the west and north of the United Kingdom—about 0·6 in. on the west coast of Ireland—and heavy snow at some scattered places on the Continent; about 0·7 in. measured at Turin and 0·5 in. at Hermanstadt. Heavy rain in the south of France; more than an inch at Cape Sicié.

Temperature risen decidedly over the United Kingdom and Scandinavia; readings in morning nearly 50° in the extreme west and north-west. Continuing much below zero in nearly all parts of Russia; -18° at Moscow and -19° at Nicolaieff. Readings above 50° at a few stations on the Mediterranean, and as high as 56° at Malta. Maxima during day above 45° over the major portion of this country, and above 60° at some places in the extreme south of our area. Intense frost continuing in Russia and East Prussia; maximum 4° at St. Petersburg.

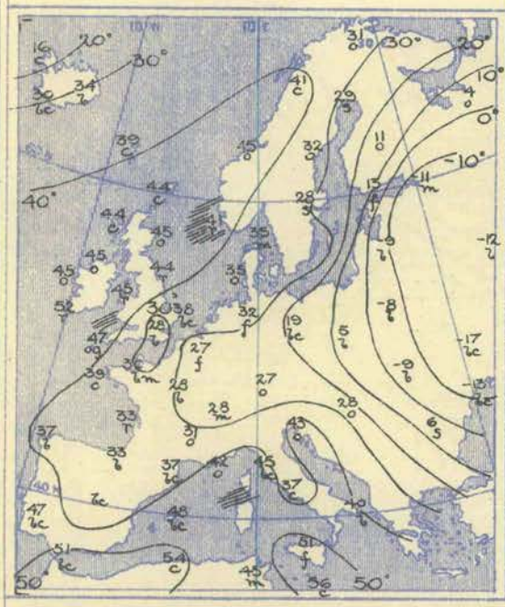
Wind in morning South-Westerly and Southerly over nearly the whole of these Islands and between Scotland and Iceland; fresh to strong or high on our extreme western and northern coasts and at Thorshavn. A strong gale from North-East prevailing at Isafjord, and a Southerly gale on the south-west coast of Norway. Light anticyclonic breezes general over the greater part of the Continent, and a cyclonic movement of moderate force over the Mediterranean. No change of importance during day; Southerly current reaching the south-east and south of England.

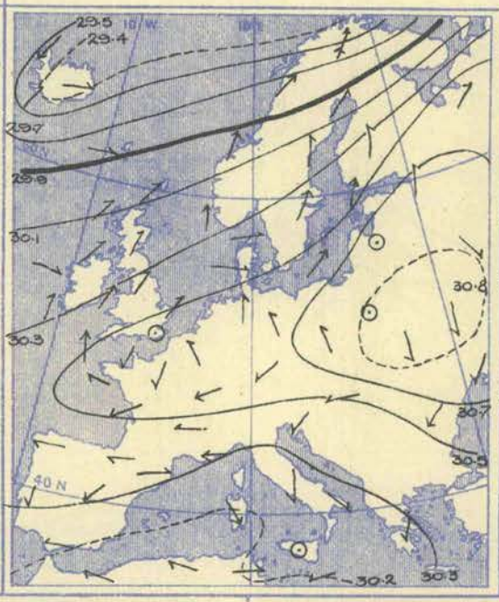
Barometer in morning above 30·3 in. in a vast area of high pressure extending from the Azores and embracing nearly the whole of Europe; above 30·8 in. in the north-west and central parts of Russia. Relatively low in a depression centred over Sardinia, and below 28·6 in. in a large system centred over Iceland. No important change occurring later in day in the general distribution of pressure, but northern disturbance travelling north-eastward, and gradient between Iceland and Scotland becoming much less steep.

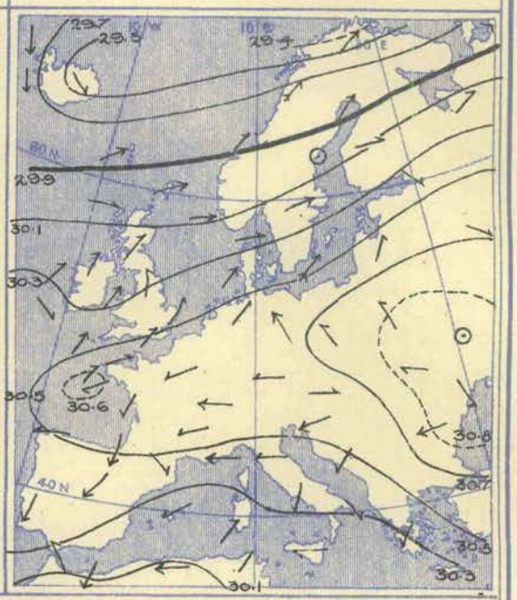
Tuesday, 14th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in some parts of Ireland and the north of England and snow falling in some Swedish localities, as well as at Bucharest and Hermanstadt. Fair to fine and bright over a large area in Russia, Central and southern Europe and in the south-east of England. Rain falling at Rochefort and Bilbao. Rain continuing throughout the day at some places in the north-west of England, and rain in varying quantities experienced over the Kingdom generally, as well as in a few localities in southern Europe. Measurement as much as 1·2 in. at Gibraltar. Considerable amounts of rain or snow falling in Scandinavia.

Temperature risen in Scandinavia and Finland, fallen changed irregularly elsewhere. Morning readings ranging from 56° at Malta, 54° at Algiers, and 50° on the south-west coast of Ireland to below 32° in the south-east of England and over the major portion of the Continent, and to many degrees below zero over Russia. Rising during day to a little above 60° in Algeria, to 59° at Brindisi, and to about 55° at many other stations in the far south. Intense frost continuing in Austria-Hungary, Russia, and south-eastern Europe. Maxima above 50° in some parts of Ireland, and above 45° in many British localities.

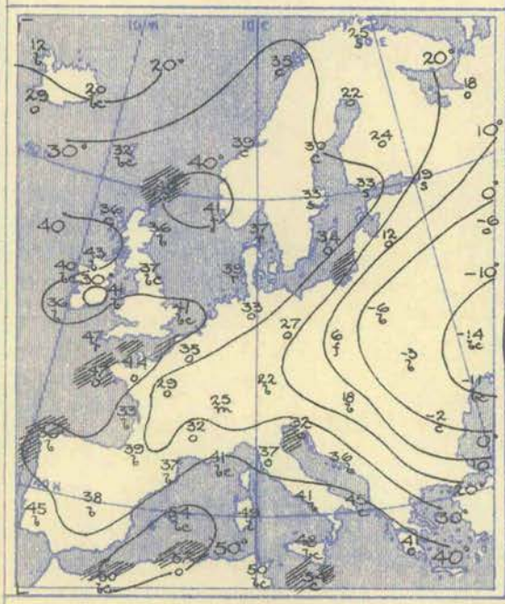
Wind in morning between South and South-West at nearly all places over the northern half of our area; moderate or light in these Islands, but strong to a gale in Scandinavia. A strong breeze from the Northward prevailing in the north-west of Iceland. Wind rather variable in direction in the south of Europe and on the Mediterranean, but mainly from some Northerly point, and light or moderate in force. No change of importance over a large area later; veering to the Westward in Scotland and to North-West in the south-west of Ireland.

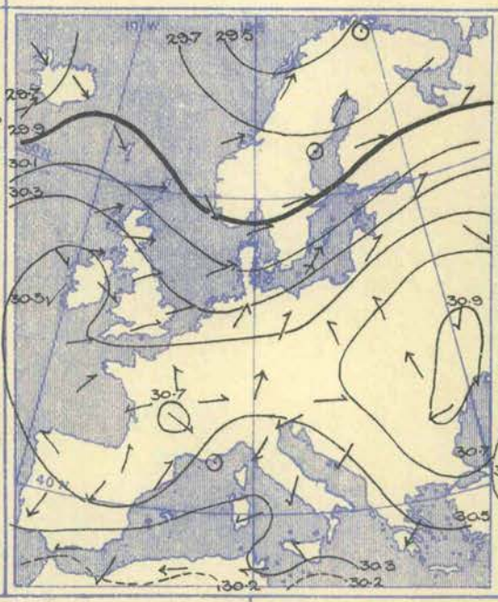
Barometer in morning above 30·8 in. over Poland and the adjacent part of Russia, and relatively high in a vast area extending thence to the Azores; below 29·4 in. in a depression in the far north of our area. Little change occurring during day in the general situation, but a small "V-shaped" depression appearing over these Islands from the Atlantic during evening and moving eastward.

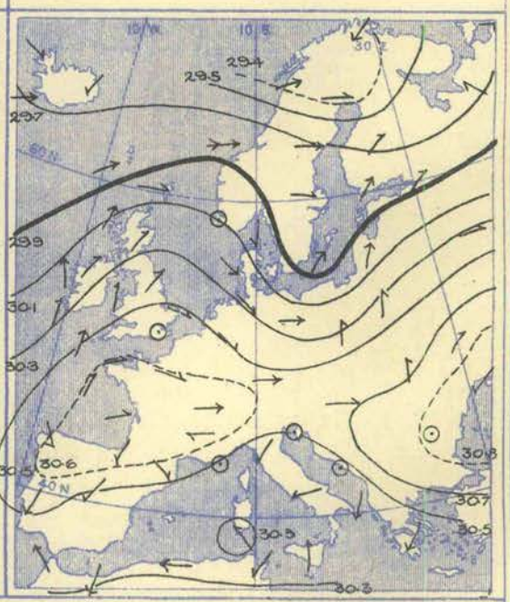
Wednesday, 15th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to bright in most parts of these Islands but showery in some southern and eastern localities; similar conditions general over southern Europe and the greater portion of Russia, but rain falling in the Netherlands and rain or snow in Denmark, the south of Sweden, and in Finland. Rain experienced later over the whole of the United Kingdom and in the north of France, and rain or snow in considerable quantities in various parts of Scandinavia.

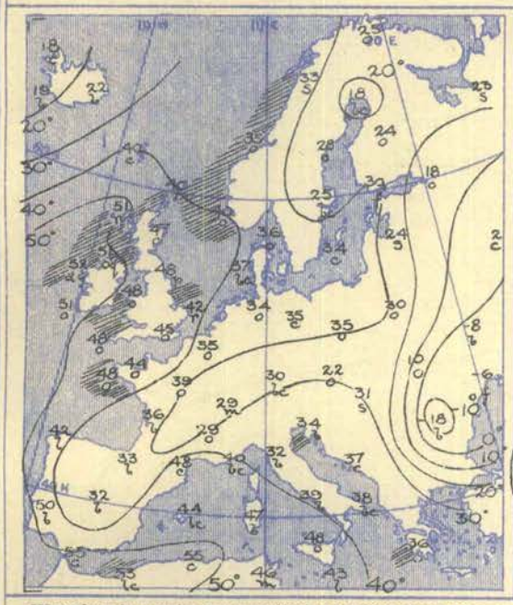
Temperature changed rather irregularly, but fallen in most regions. Morning readings still below zero over most of Russia, as low as −18° at Nicolaieff and −14° at Keiff; below the freezing point over the major portion of the Continent and also in Central Ireland, but 47° on the extreme south-west coast of England, and above 50° at some places on the shores of the Mediterranean. Maxima during day above 60° in the extreme south of Spain and above 55° in several parts of these Islands and on the Riviera, but remaining below 50° at most places in Italy. Frost continuing all day in Austria-Hungary and Russia.

Wind in morning between West and South-West over the northern half of Europe generally; a gale prevailing at Wisby, but moderate breezes in most regions. Variable or light winds between North and East, general in the South, but a high wind from the North-Eastward prevalent at Alicante, and a strong wind at Lisbon. Backing towards South-West or South over these Islands later and increasing in force by night. A strong Westerly gale setting in at Bodö by evening.

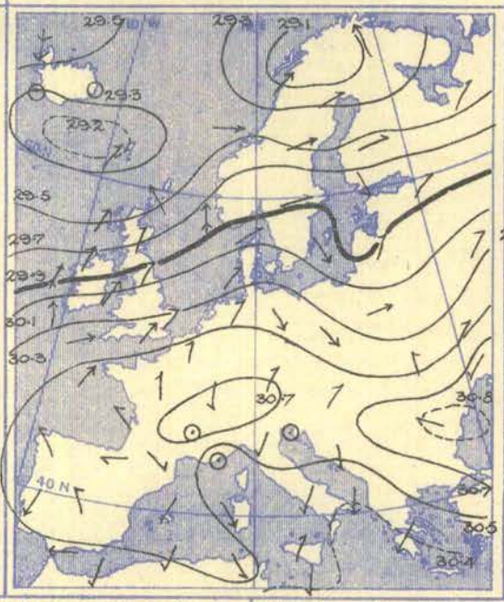
Barometer in morning above 30·9 in. in Roumania and the south-west of Russia and relatively high in a large area stretching to beyond the Bay of Biscay. Below 29·5 in. in Finmark, and nearly as low in the west of Iceland. Pressure decreasing briskly in Ireland during day and subsequently over these Islands generally. Gradient over the United Kingdom and the surrounding regions growing steep. No change of importance taking place within the high pressure area.

Thursday, 16th February, 1911.

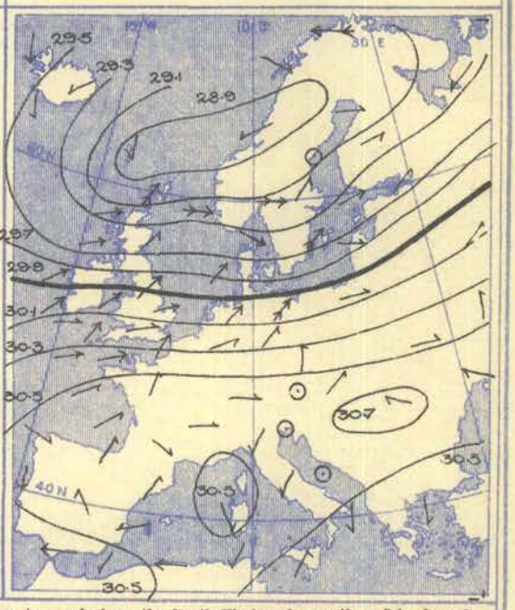
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled and mostly cloudy or overcast in the northern half of our area, with rain in several parts of the United Kingdom, and snow in a few localities on the Continent. Fair to fine at most places further south, but snow falling at Buda-Pesth. Rain experienced later over most of this country, but quantity slight generally. Considerable or heavy rain or snow in Scandinavia and North Germany, and some snow in various parts of Russia and Finland.

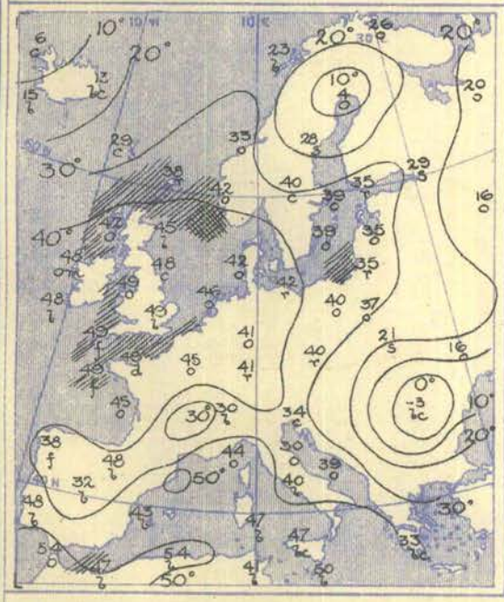
Temperature risen over these Islands, France, and central Europe, continuing very low in eastern Europe. Morning readings ranging from 50° or slightly above at some stations on the shores of the Mediterranean and in Ireland and the Hebrides to below 32° in the east of France, South Germany, and over a considerable portion of Italy, and to much below zero in the south of Russia, Transylvania, and Roumania; lowest values 18° at Nicolaieff and Hermanstadt. Rising to above 50° during day at most of our own stations, and to 59° at Aberdeen. Thermometer touching or slightly exceeding 60° at some places in the extreme south of our area. Intense frost continuing throughout in Hungary and eastern Europe.

Wind in morning fresh or strong to a gale from the South-Westward over these Islands and Norway, and strong to a gale from the Northward on the north-east coast of Iceland. A moderate to strong North-Westerly breeze prevailing over the Baltic and North Germany, and light breezes mainly from the Northward, over southern Europe and the Mediterranean Gale becoming more general later over these Islands and extending to Denmark, the Baltic, and Sweden.

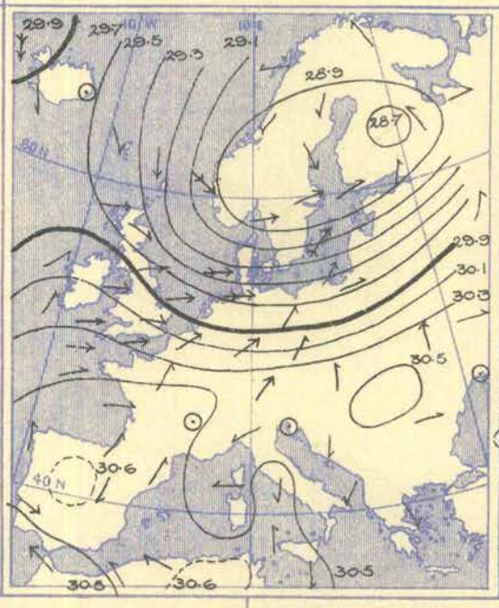
Barometer in morning above 30·6 in. in a band extending from the north of Spain to the Black Sea; below 29·2 in. in a depression centred between Iceland and the Faeroe, and below 29·1 in. in another minimum over the north of Scandinavia. Relatively low in a secondary over east Prussia. Pressure giving way in most parts of our area later, and two nothern low-pressure systems coalescing. Gradient increasing considerably over the northern regions of our area and becoming very steep over the Baltic.

Friday, 17th February, 1911.

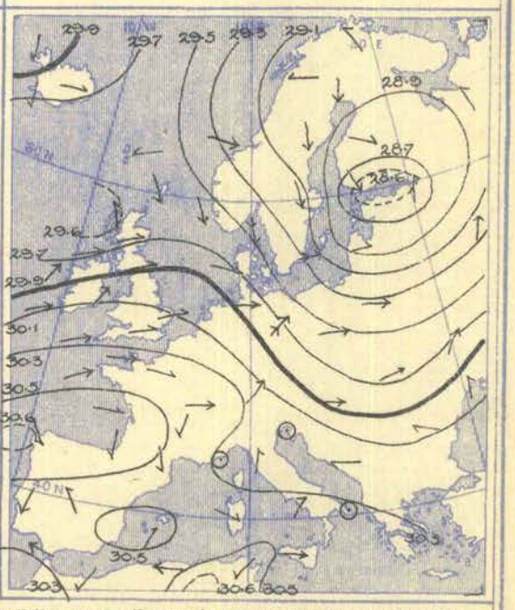
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over most of the United Kingdom, but showery at Nairn and Jersey. Very cloudy or overcast over nearly all of central and northern Europe, with rain or snow in several localities. Fair to bright over the southern regions and the Mediterranean. Some rain later at many places in the west and north of these Islands, and also in Germany and Austria, and snow in Scandinavia and Finland.

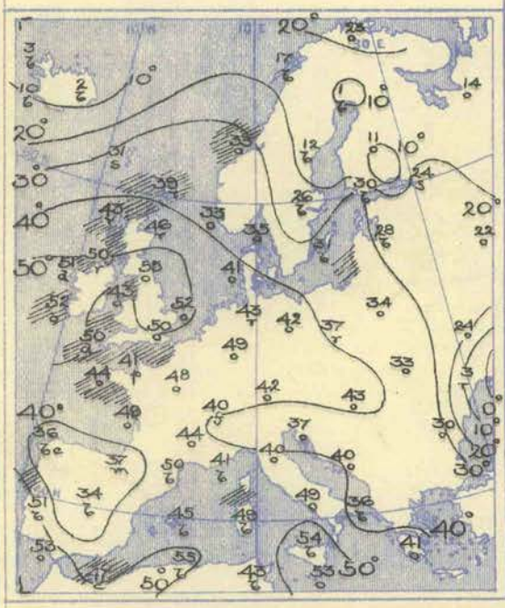
Temperature fallen in the north and west of these Islands, risen over our area generally. Morning readings ranging from 54° at Algiers and Gibraltar and nearly 50° on our south-west coasts to below 32° over the north of Italy and over a vast area in the north-east and east of the Continent, and to below zero at Hermanstadt and Bucharest, as well as in the south of Russia. Rising later to about 55° in many English localities and to above 50° in nearly all parts of France; maximum at Perpignan as high as 71°. Thermometer remaining below 32° at Turin throughout the day.

Wind in morning cyclonic over all the more northern regions, and anticyclonic in the south. North-Westerly to Westerly current strong to a gale over these Islands and the North Sea region, and that from the South-Westward nearly as strong over the Baltic and Germany. A Northerly gale prevailing in the north-west of Iceland. Decreasing in force over these Islands during day, and backing to South-West in the west and north. Veering to West on the Baltic and continuing strong to a gale. Increasing to a strong breeze from the Eastward on the south coast of Spain.

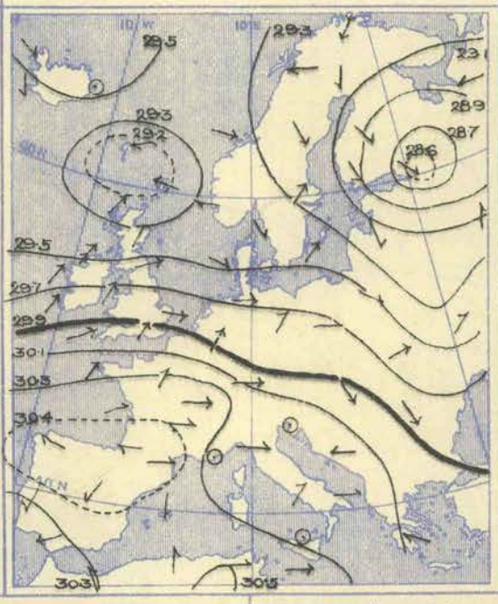
Barometer in morning above 30·6 in. over the greater part of the Spanish Peninsula and the south of France and above 30·5 in. in Transylvania. Below 28·7 in. in a large low pressure system having its minimum over Finland. Pressure decreasing decidedly later in Ireland and the Hebrides, and increasing briskly over the North Sea region. Cyclonic centre moving in a Southerly direction, and barometer falling quickly over the greater portion of Russia and south-eastern Europe.

Saturday, 18th February, 1911.

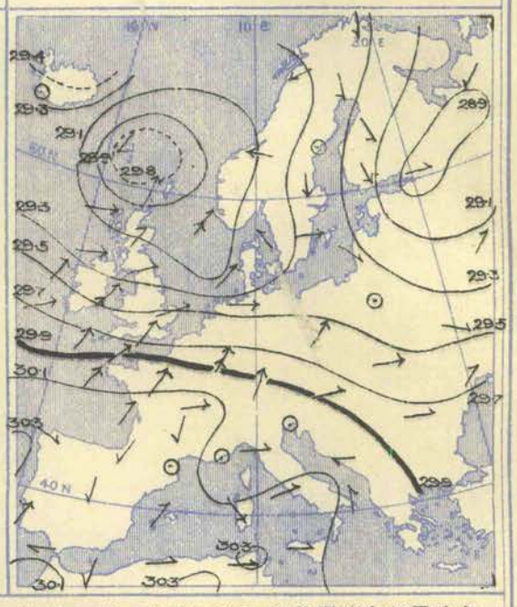
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over these Islands and their immediate neighbourhood, with rain at several of our western and northern stations. Rain falling over a large area in central Europe, and snow at Skudesnaes, but sky nearly cloudless in Sweden and Finland. Fair to bright weather prevalent over southern Europe and the Mediterranean. Some rain later throughout the United Kingdom and the nearer countries of the Continent, heavy falls of rain or snow in central Europe, Denmark, and Norway, and some snow in Russia and Poland.

Temperature risen over this country and most of France, fallen in Scandinavia. Morning readings ranging from 61° at Malaga, 55° at Gibraltar, Algiers and North Shields, and 50° or a little higher on our west and south-west and south-east coasts to below 32° in the east and north of the Continent, to 1° at Haparanda, and to 3° at Nicolaieff. Maxima during day 55° or rather higher at several stations in England and Ireland, above 60° in the southern parts of France and the Spanish Peninsula, and also in Algeria, and as high as 71° at Perpignan. Thermometer rising to 50° in some localities in central Europe.

Wind in morning cyclonic except in the south-west of our area. South-Westerly to Westerly current fresh to high over these Islands generally and blowing a gale at Malin Head. A strong to high wind from the Eastward in Shetland and at Thorshavn. A Northerly gale prevailing at Vardö. Light breezes from varying points general in the south, but a fresh Easterly breeze reported on the south coast of Spain. Gale subsiding later in day at Malin Head, but wind increasing to a gale from the South-Westward at Holyhead and some of our south coast stations and also on the south-west coast of Norway.

Barometer in morning above 30·4 in. over the north of Spain and the adjacent part of France and also in Algeria; below 28·6 in. in a large depression centred near St. Petersburg, and about 29·1 in. in another having its minimum off the north of Scotland. Russian depression extending in a North-Easterly direction during day, and that off the north of Scotland remaining stationary, but increasing considerably in intensity. Gradient growing steeper over England, the Channel, and the North Sea, changing little in the north of these Islands.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1911.												
1	Feb. 12th, 10.30 a.m. to noon.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	276·5° 86% 350°, 5	? ° ? % ? °,	? ° ? % ? °,					273·5° 76% 355°, 5	790	Overcast Scud. Kite not seen at 350 m. above sea. Temp. 277° and Hum. 70%. Wind direction by wire.
2	Feb. 13th, 12.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	245°, 2		260°, 3	280°, 2.5	295°, 3				1,500	Two theodolites. 10 st-cu. Balloon lost in clouds.
3	Feb. 14th, 11.10 a.m. to noon.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	278·5° 70% 200°, 5	277·5° 70% 200°, 7	274° 85% 210°, 10	270° 100% 220°, 12	275° 30% 230°, 19			275° 30% 230°, 19	1,600	Clouds at 1,000 m. Inversion with great increase of wind at 1,100 m. Nearly clear, cirrus.
4	Feb. 15th, 10.5 a.m. to 10.55 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	279° 80% 320°, 6	278° 80% 320°, 9	276° 80% 340°, 11	274° 50% 330°, 12				272° 30% 340°, 12	1,300	Light steady wind.
5	Feb. 15th, 10.31 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	330°, 7		335°, 8	310°, 13	310°, 14			295°, 14	1,700	Two theodolites to 500 m. No clouds.
6	Feb. 16th, 9.50 a.m. to 10.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	281° 90% 225°, 11	280·5° 90% 225°, 18	278, 5° 95% 235°, 20					277·5° 100% 235°, 25	700	Clouds not reached. Very strong but steady wind.
7	Feb. 16th, 10.30 a.m. to 11.0 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	279·4° 100% 230°, 13·4									Overcast, stratus. Great increase of wind velocity of 90 m. above ground when kite entered cloud and became unmanageable
8	Feb. 17th, 10.0 a.m. to 10.46 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	282·5° 80% 260°, 9	281·5° 80% 270°, 12	279° 90% 275°, 14	276° 95% 280°, 18				273·5° 100% 290,° 20	1,300	Clouds at 1,100 m.
9	Feb. 18th, 10.7 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	282° 90% 225°, 12	282·5° 90% 235°, 15	281° 100% 250°, 19					280° 100% 210°, 20	900	Clouds at 500 m. Very gusty wind.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites..	1	—	1	1	—	1	1	1	1
Area of Surface (sq. metres) ..	7	—	8	7	—	4	4·5	4	4
Capacity of Balloon (cub. metres)	—	·011	—	—	·042	—	—	—	—
Length of Wire (metres)	1,500	—	?	1,650	—	650	200	1,400	650

South Kensington, London, S.W. *February 22nd, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 8. EIGHTH WEEK, SUNDAY, FEBRUARY 19TH, TO SATURDAY, FEBRUARY 25TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was very changeable. More or less rain fell daily in the western and northern districts, and almost every day in the east and south, but bright periods were numerous and sometimes continued for several hours. In some Scottish localities a considerable portion of the precipitation was composed of snow. A thunderstorm occurred at Sumburgh Head on Wednesday, and thunder, with a display of aurora, at Wick. Aurora was seen at Aberdeen and Gordon Castle on Wednesday, and at Gordon Castle also on Tuesday and Saturday.

Temperature was above the average, the excess being less than a degree in Scotland N., but more than 4° over England, as much as 6° in England E. The highest of the maxima occurred generally on the 21st or 25th, and ranged from 59° in Ireland S., and 58° in several other districts to 51° in Scotland N. The lowest of the minima were registered at most stations on the 20th. In Scotland N. and E. the thermometer fell to 21°; elsewhere the readings ranged from 27° in England S.E. and the Midland Counties, and to 38° in the English Channel. The lowest grass readings were 15° at Llangammarch Wells, 16° at Crathes, 17° at Balmoral, 19° at Clacton-on-Sea, and 21° at Tunbridge Wells.

Mean Temperature of the Sea. Except on the south-west and north-west coasts of Ireland and in a few places elsewhere the water was colder than during the corresponding week of last year. The means for the week ranged from nearly 48° at Scilly, and 46° at Salcombe and Seafield to below 40° at several places on the north-east coasts of Great Britain, and to 37° at Cromarty.

Rainfall exceeded the average in all districts except the English Channel, the excess being considerable or large in Ireland and the west and north of Britain. Several separate falls of more than an inch occurred in Scotland; at Fort William 1·71 in. fell on the 21st, 1·83 in. on the 22nd, and 0·98 in. on the 23rd; at Glencarron there was 1·62 in. on the 21st, and 1·02 in. on the 23rd; at Fort Augustus 1·14 in. on the 21st, and at Glasgow 1·04 in. on the 22nd. As much as 1·19 in. was also reported at Stonyhurst on the 21st.

Bright Sunshine amounted to more than the average except in Scotland N. The percentage of the possible duration ranged from 43 in the English Channel, 41 in England S.E. and 40 in Scotland E. to 31 in England N.W. and to 24 in Scotland N.

Barometer and Wind. These Islands continued between a high pressure area stretching from the Azores to the Bay of Biscay, and large and deep cyclonic systems moving eastward over the Iceland region. Some of the disturbances extended southward and embraced the whole of this country and the North Sea, and the winds from South-West or West, veering occasionally towards North-West, were generally strong in force. Gales were reported almost daily from some parts of the coast, but they were more common in the west than in the east.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 52.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very heavy	Very heavy	Moderate	Heavy	Heavy	Moderate	Very heavy	Very heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 12 weeks from Dec. 4th, 1910.	Warmth ...	**6** * 0	**7** * 1	**6** * 2	**6** * 1	**6** * 1	**5** * 1	**5** * 1	**6** * 2	**5** * 2	**6** * 2	**4** * 5	**4** * 3
	Rainfall ...	**3** * 5	**2** * 5	**3** * 5	**4** * 3	**3** * 5	**3** * 5	**4** * 4	**3** * 4	**3** * 5	**3** * 7	**3** * 7	**2** * 5
	Sunshine ...	**3** * 2	**6** * 3	**4** * 4	**3** * 3	**4** * 2	**4** * 3	**5** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 4

PAST SEASONS.

WINTER, 1909-10. Dec. 5th–March 5th. 13 weeks.	Warmth ...	**1** * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	**10** * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs)
	EIGHTH WEEK—February 19th to February 25th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	51	21	44·6	32·8	38·8	+ 0·9	7	0	35	− 2	7	+ 3	3·13	+2·19	17	0	24	0
Eastern																		
1. SCOTLAND, EAST	58	21	45·9	32·8	39·4	+ 2·5	11	+ 3	35	− 8	6	+ 3	1·35	+0·85	28	+ 9	40	+13
2. ENGLAND, N.E.	58	29	49·6	36·8	43·2	+ 4·7	30	+21	15	− 19	5	+ 1	0·46	+0·13	26	+ 7	37	+10
3. ENGLAND, EAST	57	29	50·9	37·9	44·4	+ 6·0	34	+22	11	− 26	6	+ 3	0·40	+0·07	25	+ 5	36	+ 7
4. MIDLAND COUNTIES	58	27	50·3	37·9	44·1	+ 5·6	32	+19	11	− 27	6	+ 3	0·63	+0·23	26	+ 8	36	+11
5. ENGLAND, S.E.	57	27	50·0	39·4	44·7	+ 4·9	30	+16	7	− 23	5	+ 3	0·56	+0·13	29	+ 8	41	+12
Western																		
6. SCOTLAND, WEST	56	30	47·1	37·0	42·1	+ 3·2	22	+13	14	− 18	7	+ 3	2·10	+1·27	27	+ 11	39	+16
7. ENGLAND, N.W.	58	32	48·7	39·0	43·9	+ 4·5	26	+15	8	− 22	7	+ 3	1·44	+0·92	22	+ 3	31	+ 4
8 ENGLAND, S.W.	56	29	49·7	40·2	44·9	+ 3·9	28	+11	5	− 19	7	+ 3	1·11	+0·43	28	+ 7	39	+10
9. IRELAND, NORTH	58	31	49·9	38·1	44·0	+ 3·5	30	+16	11	− 14	7	+ 3	1·36	+0·73	25	+ 7	36	+10
10. IRELAND, SOUTH	59	28	52·0	38·7	45·4	+ 3·3	38	+17	9	− 11	7	+ 4	1·11	+0·35	27	+ 7	38	+10
11. ENGLISH CHANNEL	53	38	51·2	42·6	47·0	+ 3·0	35	+12	0	− 10	5	+ 1	0·56	−0·04	31	+ 6	43	+ 9
	THE SEASON (Winter).—Aggregates, &c., for the Period of 12 Weeks, December 4th, 1910, to February 25th, 1911.																	
0. SCOTLAND, NORTH	55	14	*	*	*	*	142	+ 54	248	−168	66	+ 4	15·76	+0·41	81	− 7	13	− 1
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	136	+ 45	317	−175	49	+ 1	6·09	−1·03	149	+17	23	+ 3
2. ENGLAND, N.E.	58	19	*	*	*	*	172	+ 67	262	−131	42	− 1	4·01	−1·05	140	+ 1	21	0
3. ENGLAND, EAST	58	16	*	*	*	*	183	+ 67	294	−151	51	+ 6	5·22	+0·46	155	− 3	22	0
4. MIDLAND COUNTIES	59	14	*	*	*	*	182	+ 50	285	−162	44	0	5·16	−0·72	136	+ 2	20	0
5. ENGLAND, S.E.	57	16	*	*	*	*	197	+ 31	265	− 66	44	0	6·05	−0·25	171	+18	24	+ 3
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	171	+ 43	207	−121	61	+ 6	13·31	+0·44	114	− 1	17	0
7. ENGLAND, N.W.	58	17	*	*	*	*	170	+ 38	207	−114	48	− 2	7·77	−0·36	136	+14	20	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	201	− 13	196	− 49	51	0	9·57	−0·80	159	+ 5	22	+ 1
9. IRELAND, NORTH	58	18	*	*	*	*	217	+ 52	190	− 89	56	− 1	7·31	−2·00	141	+ 8	21	+ 1
10. IRELAND, SOUTH	59	18	*	*	*	*	262	+ 6	189	− 23	56	+ 3	8·07	−2·86	154	− 2	22	0
11. ENGLISH CHANNEL	57	29	*	*	*	*	326	+ 1	81	+ 8	50	− 7	6·49	−2·31	187	− 6	26	− 1
	THE YEAR.—Aggregates, &c., for the Period of 8 Weeks, January 1st to February 25th, 1911.																	
0. SCOTLAND, NORTH	55	14	*	*	*	*	74	+ 20	193	−101	39	− 2	10·80	+0·75	64	− 7	15	− 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	67	+ 6	256	− 80	29	− 2	3·78	−0·70	112	+ 7	25	+ 2
2. ENGLAND, N.E.	58	19	*	*	*	*	91	+ 21	212	− 56	24	− 5	2·22	−0·82	106	0	22	0
3. ENGLAND, EAST	58	16	*	*	*	*	78	+ 1	246	− 56	31	+ 2	2·70	−0·32	123	+ 4	25	+ 1
4. MIDLAND COUNTIES	59	14	*	*	*	*	88	− 2	238	− 62	22	− 7	1·96	−1·80	106	+ 5	22	+ 1
5. ENGLAND, S.E.	57	16	*	*	*	*	72	− 31	225	− 5	25	− 3	2·43	−1·56	131	+ 19	27	+ 4
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	97	+ 17	173	− 59	34	− 2	8·13	+0·10	87	− 1	19	0
7. ENGLAND, N.W.	58	17	*	*	*	*	82	− 1	180	− 42	25	− 8	4·07	−1·05	105	+ 12	22	+ 3
8. ENGLAND, S.W.	56	13	*	*	*	*	85	− 49	173	− 2	27	− 6	3·56	−2·74	124	+ 10	25	+ 2
9. IRELAND, NORTH	58	18	*	*	*	*	121	+ 11	163	− 29	31	− 6	4·36	−1·52	112	+ 13	24	+ 3
10. IRELAND, SOUTH	59	18	*	*	*	*	148	− 17	171	+ 25	31	− 3	3·98	−2·83	120	+ 7	25	+ 1
11. ENGLISH CHANNEL	53	29	*	*	*	*	146	− 50	81	+ 11	27	−10	2·77	−2·53	136	− 6	27	− 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*46*	*21st*	*24*	*20th*	*42·2*	*31·3*	*36·8*	—	*1*	*38*	7	*2·22*	—	*10·3*	—	*16*	—	*Baltasound.*
	a Sumburgh Head ..	49	25th	21	21st	43·9	31·6	37·8	− 0·4	5	38	7	1·96	+ 1·23	16·9	+ 1·6	25	+ 2	Deerness.
	a Stornoway	51	21st	31	21st	44·7	34·3	39·5	+ 0·4	8	29	7	2·32	+ 1·31	23·4	+ 6·9	35	+10	Stornoway.
	a *Castlebay, Barra Isd.*	*50*	*21st, 23rd*	*35*	*20th, 21st*	*46·9*	*37·6*	*42·0*	+ *0·5*	*14*	*14*	7	*1·19*	—	*22·9*	—	*34*	—	*Castlebay.*
	a Wick	50	23rd	28	21st	44·0	32·3	38·2	+ 0·4	6	36	7	1·40	+ 0·87	*	*	*	*	*
	p Strathpeffer.. ..	51	21st	27	21st	45·5	32·2	38·9	+ 1·4	10	37	7	2·37	+ 1·73	13·2	− 3·3	19	− 5	Strathpeffer.
	p Glencarron .. S	50	21st	26	21st	43·4	31·9	37·7	+ 0·9	4	37	7	5·01	+ 3·24	*	*	*	*	*
	p Fort Augustus S	50	21st, 22nd	27	21st	45·4	33·1	39·3	+ 1·1	10	34	7	3·23	+ 2·24	12·4	+ 0·6	18	+ 1	Fort Augustus.
	p Fort William S	50	21st	28	21st	45·4	34·4	39·9	+ 0·7	10	29	7	5·60	+ 3·86	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	p Gordon Castle S	54	22nd	26	20th	46·5	31·3	38·9	+ 0·2	13	41	7	1·05	+ 0·53	*31·0*	—	*31*	—	*Gordon Castle.*
	a Nairn	52	21st	26	21st	43·7	32·6	38·2	+ 0·2	5	34	7	1·83	+ 1·38	14·0	—	21	—	Nairn.
	a Aberdeen	55	21st	28	21st	46·0	34·9	40·5	+ 2·2	11	28	5	0·52	− 0·01	32·0	+12·5	47	+18	Aberdeen.
	a Balmoral .. S	48	19th, 25th	21	20th	44·4	29·3	36·9	+ 2·6	7	46	7	1·35	+ 0·70	30·7	—	45	—	Crathes S.
	p Crieff .. .. S	52	21st, 22nd	27	21st	46·9	33·1	40·0	+ 1·7	14	35	7	2·28	+ 1·49	31·9	—	47	—	Balruddery.
	a Leith	58	21st	33	21st	48·9	37·4	43·2	+ 3·6	28	13	4	0·71	+ 0·34	*	*	*	*	*
	p West Linton.. S	52	21st	26	21st	44·9	32·1	38·5	+ 1·7	8	37	7	2·07	—	*22·0*	—	*32*	—	*West Linton.*
	p Marchmont .. S	49	22nd	29	21st	46·1	31·6	38·9	+ 1·5	11	40	5	1·02	+ 0·50	28·9	+11·1	42	+16	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	56	21st	29	21st	50·2	35·7	43·0	+ 4·5	33	18	5	0·43	− 0·07	33·2	—	48	—	Cockle Park.
	a Shields	52	23rd, 25th	32	20th, 21st	48·7	35·6	42·2	+ 3·0	28	18	5	0·29	− 0·05	*24·5*	+*10·9*	*36*	+*16*	*Newcastle.*
	p Durham	53	22nd	30	21st	48·7	35·8	42·3	+ 4·3	28	17	4	0·49	+ 0·15	30·6	+12·7	44	+18	Durham.
	p Rounton .. M	53	22nd	29	20th	49·9	35·1	42·5	+ 4·5	32	19	6	0·56	+ 0·18	*	*	*	*	*
	p Scarborough.. M	53	19th	31	20th	49·1	38·0	43·6	+ 4·3	28	11	5	0·51	+ 0·07	25·8	—	37	—	Scarborough.
	p York	55	21st, 22nd	33	19th	50·7	38·6	44·7	+ 5·7	33	10	5	0·50	+ 0·11	21·4	+ 5·4	31	+ 8	York.
	a Spurn Head ..	52	21st	34	20th	47·6	37·1	42·4	+ 3·2	23	14	3	0·36	+ 0·06	*	*	*	*	*
b, South.	a Lincoln	55	25th	30	20th	49·8	37·5	43·7	+ 4·8	31	13	4	0·37	0·00	15·0	—	21	—	Skegness.
	a Fulbeck	58	22nd	30	20th	51·3	37·6	44·5	+ 5·2	36	12	7	0·65	+ 0·28	28·7	—	41	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	54	25th	32	19th	50·6	36·5	43·6	+ 5·9	34	15	6	0·38	—	*25·9*	—	*37*	—	*Lowestoft.*
	p Hillington .. M	55	19th	29	20th	51·1	36·8	44·0	+ 5·3	36	15	6	0·61	+ 0·20	26·7	—	38	—	Cromer.
	a Yarmouth	54	25th	31	20th	50·0	37·4	43·7	+ 5·3	31	13	7	0·38	+ 0·04	7·1	−12·2	10	−18	Hillington.
	a Norwich	53	25th	31	20th	49·5	38·5	44·0	+ 5·5	29	10	7	0·50	—	23·2	—	33	—	Yarmouth.
	p Geldeston	56	19th	30	20th	51·7	37·4	44·6	+ 5·4	38	13	7	0·31	− 0·03	*	*	*	*	*
	p Cambridge	57	25th	29	20th	52·5	38·0	45·3	+ 6·1	40	11	5	0·19	− 0·14	23·3	+ 3·0	33	+ 4	Geldeston.
b, South.	a *Felixstowe*	*54*	*25th*	*32*	*20th*	*50·3*	*39·3*	*44·8*	+ *5·6*	*31*	*8*	5	*0·27*	—	30·7	+10·4	43	+15	Cambridge.
	a Clacton-on-Sea ..	54	25th	31	20th	50·6	38·4	44·5	+ 5·4	33	10	5	0·22	—	*28·0*	—	*39*	—	*Felixstowe.*
	a Rothamsted ..	55	25th	29	20th	50·8	37·4	44·1	+ 5·6	34	13	6	0·62	+ 0·18	31·7	—	45	—	Clacton.
	a *Shoeburyness* ..	*54*	*25th*	*33*	*20th*	*50·7*	*49·1*	*44·9*	+ *5·2*	*32*	*8*	*5*	*0·20*	− *0·08*	31·6	+12·8	45	+18	Rothamsted.
	p Tottenham	55	25th	34	20th	51·0	40·7	45·9	+ 6·0	33	4	5	0·38	—	*27·9*	—	*39*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	a Harrogate	52	22nd	32	20th	48·3	36·7	42·5	+ 4·8	26	15	6	1·45	+ 0·94	27·9	—	39	—	Tottenham.
	a Bawtry	54	21st, 25th	32	20th	49·0	38·3	43·7	+ 4·6	27	10	5	0·47	+ 0·10	24·2	—	35	—	Harrogate.
	p *Buxton* .. M	*50*	*21st, 22nd*	*31*	*20th*	*47·2*	*35·2*	*41·2*	+ *5·0*	*15*	*27*	7	*1·64*	+ *0·71*	22·8	+ 6·8	33	+10	Worksop.
	a Nottingham ..	56	25th	31	20th	50·0	38·0	44·0	+ 5·0	31	11	7	0·82	+ 0·43	*11*	—	*16*	—	*Buxton.*
	p Birmingham, Edgbsn	54	25th	32	20th	50·9	37·8	44·4	+ 5·6	34	12	7	0·59	+ 0·18	25·7	—	37	—	Nottingham.
	a Raunds .. M	58	25th	30	20th	51·5	37·3	44·4	+ 5·5	37	13	6	0·40	—	20·9	—	29	—	Birmingham.
	a Oxford	55	25th	32	20th	51·1	38·7	44·9	+ 5·1	34	9	5	0·34	− 0·05	*	*	*	*	*
b, West.	a Cheadle .. M	53	25th	29	20th	48·2	36·1	42·2	+ 4·3	26	17	5	0·71	+ 0·21	28·8	+10·5	41	+15	Oxford.
	p Shrewsbury ..	56	25th	31	20th	52·4	39·1	45·8	+ 5·8	39	8	7	0·35	—	24·6	—	35	—	Sheffield.
	a Hereford .. M	55	25th	31	20th	50·9	38·6	44·8	+ 5·0	34	10	7	0·54	+ 0·07	*	*	*	*	*
	a Cirencester	55	23rd	27	20th	50·1	36·2	43·2	+ 4·7	33	16	6	0·55	+ 0·05	*	*	*	*	*
	a Bath	53	23rd, 25th	30	20th	50·7	39·7	45·2	+ 4·8	32	6	7	0·66	+ 0·16	27·7	+ 8·1	39	+11	Cirencester.
5. ENGLAND, S.E... ..	p Kew	55	25th	33	20th	51·1	40·1	45·6	+ 5·6	33	5	5	0·35	− 0·03	30·1	—	42	—	Bath.
	a Marlborough ..	52	25th	29	20th	49·1	37·6	43·4	+ 4·5	28	12	5	0·78	+ 0·22	*29·9*	—	*42*	—	*Ramsgate.*
	a Margate	54	25th	33	20th	50·0	39·7	44·9	+ 4·9	30	6	5	0·27	− 0·09	30·0	+14·4	42	+20	Kew.
	a Wisley, Surrey ..	54	25th	33	20th	50·7	39·7	45·2	+ 4·8	32	6	5	0·38	—	24·7	+ 8·4	35	+12	Marlborough.
	a Swarraton .. M	52	25th	27	20th	49·5	38·7	44·1	+ 5·1	29	9	5	0·54	0·00	27·4	+ 7·8	39	+11	Margate.
	a Tunbridge Wells M	52	25th	29	20th	48·8	37·3	43·1	+ 4·1	27	13	4	0·65	+ 0·12	29·8	—	42	—	Wisley.
	a Dungeness	53	24th	33	20th	49·4	39·7	44·6	+ 4·6	28	6	5	0·54	+ 0·17	29·7	—	42	—	Worthing.
	p Hastings	51	22nd, 25th	33	20th	49·0	39·3	44·2	+ 3·9	27	8	5	0·61	+ 0·11	27·1	+ 8·5	38	+12	Tunbridge Wells.
	p Southampton ..	57	25th	32	20th	52·3	39·5	45·9	+ 4·2	38	7	7	0·80	+ 0·29	31·0	—	44	—	Littlestone.
	a Ventnor	52	24th, 25th	36	20th	49·9	41·9	45·9	+ 3·9	28	0	7	0·70	+ 0·20	*28·4*	+ *6·3*	*40*	+ *9*	*Hastings.*
LONDON .. — ..	a *Westminster* ..	*55*	*25th*	*33*	*20th*	*51·7*	*40·1*	*45·9*	+ *5·9*	*35*	*5*	*5*	*0·32*	− *0·07*	29·7	+ 9·2	42	+13	Southampton.
	a *Greenwich*	*55*	*25th*	*33*	*20th*	*51·3*	*39·3*	*45·3*	+ *5·1*	*34*	*8*	*5*	*0·45*	+ *0·07*	33·6	+11·4	47	+16	Ventnor.
															29·0	+ 8·3	41	+12	Eastbourne.
															24·5	+*14·8*	*35*	+*21*	*Westminster.*
															26·4	+*10·8*	*37*	+*15*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	52	21st	30	21st	45·3	36·6	41·0	+ 2·0	9	22	7	2·60	+ 1·73	*	*	*	*	*
	p Glasgow	55	21st	35	19, 20, 21st	47·4	37·3	42·4	+ 3·4	23	13	7	2·34	+ 1·69	23·3	+11·1	34	+16	Glasgow.
	p Rothesay .. S	55	21st	31	20th	48·4	36·4	42·4	+ 2·5	26	16	7	2·67	+ 1·82	*	*	*	*	*
	a Kilmarnock	56	21st	33	20th, 21st	47·3	36·1	41·7	+ 2·7	15	24	7	2·17	—	*21·9*	—	*32*	—	*Kilmarnock.*
	a Colmonell .. S	49	23rd	35	19th, 20th	45·8	37·6	41·7	+ 3·0	11	18	7	1·41	+ 0·54	*	*	*	*	*
	p Dumfries .. S	49	21, 23, 24th	32	22nd	47·7	35·4	41·6	+ 2·4	16	27	7	2·02	+ 1·29	*27·7*	—	*40*	—	*Dumfries.*
	p Cally, Gatehouse S	49	23rd, 24th	33	20th	47·5	37·0	42·3	+ 4·3	23	14	7	2·12	+ 1·13	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	49	22, 23, 25th	36	20th	47·4	39·2	43·3	+ 2·9	21	8	7	1·45	+ 0·67	30·5	+10·8	44	+16	Douglas.
															26·9	—	38	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	49	21, 22, 23rd	32	19th	46·6	37·5	42·1	+ 4·1	20	13	7	1·60	+ 1·03	23·0	—	33	—	Aspatria.
	p Newton Rigg ..	52	21, 22, 23rd	32	20th, 21st	47·5	35·4	41·5	+ 4·5	15	27	7	1·91	+ 1·21	20·5	+ 3·5	30	+ 5	Newton Rigg.
	p Stonyhurst	52	21st, 22nd	32	20th	48·1	37·2	42·7	+ 4·1	25	13	7	3·06	+ 2·26	13·7	− 2·5	20	− 4	Stonyhurst.
	p Blackpool .. M	51	22nd	36	20th	47·7	39·3	43·5	+ 4·2	22	8	7	1·45	+ 0·92	27·0	+ 9·8	39	+14	Blackpool.
	p M'nch'ster, Prestwich	52	21st, 22nd	32	20th	49·1	38·6	43·9	+ 5·1	28	10	7	1·66	+ 1·11	*10·2*	− *1·3*	*15*	− *2*	*Prestwich.*
	a Liverpool (Bidston)	54	21st	36	20th	48·7	39·6	44·2	+ 4·5	25	7	7	0·71	+ 0·28	*25·2*	—	*36*	—	*Liverpool.*
	a Hawarden Bridge ..	57	21st	35	24th	51·2	40·2	45·7	+ 5·2	33	5	6	0·34	− 0·02	*23·6*	+ *5·6*	*34*	+ *8*	*Southport.*
															26·2	—	*37*	—	*Rhyl.*
8. — b, NORTH WALES ..	p Llandudno .. M	58	21st	39	20th	50·3	41·6	46·0	+ 4·4	30	1	6	0·61	+ 0·13	20·8	+ 2·0	30	+ 3	Llandudno.
	a Holyhead	52	25th	39	19th, 20th	49·0	40·7	44·9	+ 3·3	26	4	5	0·92	+ 0·34	24·1	—	34	—	Aberdovey.
	p Bettws-y-Coed ..	51	21st, 22nd	33	19th	48·4	40·0	44·2	+ 3·2	24	6	7	2·12	—	15·9	—	23	—	Bettws-y-Coed.
															23·9	—	34	—	Aberystwyth.
															19·1	—	27	—	Llangammarch Wells.
9. IRELAND, N. — a, SOUTH WALES ..	a Llangammarch Wells	52	25th	29	20th	48·3	37·3	42·8	+ 4·3	25	13	7	1·49	—	32·0	+11·3	45	+16	Pembroke.
	a Pembroke	50	21, 23, 24, 25	40	22nd	49·0	41·4	45·2	+ 3·2	25	2	7	0·68	+ 0·07	*30·0*	—	*42*	—	*Cardiff.*
	p Cardiff	54	22nd	33	20th	50·1	38·9	44·5	+ 4·2	31	9	7	1·49	+ 0·78	*29·6*	+ *8·1*	*42*	+*11*	*Tenby.*
	a Clifton	54	21st	34	20th	49·6	41·1	45·4	+ 4·9	28	3	7	0·70	+ 0·14	*27·0*	—	*38*	—	*Clifton.*
	a Shaftesbury .. M	53	25th	34	21st	47·5	38·5	43·0	+ 4·1	22	10	6	0·95	+ 0·38	*	*	*	*	*
	a Arlington	52	21st	33	20th	49·1	38·4	43·8	+ 4·1	28	10	7	1·99	+ 1·07	29·2	+ 7·6	41	+11	Newquay.
	a Cullompton .. M	56	25th	31	20th	51·7	39·8	45·8	+ 4·9	36	6	7	1·10	+ 0·45	26·8	+ 7·8	38	+11	Cullompton.
b, ENGLAND, S.W. ..	a Portland Bill ..	51	25th	40	19, 20, 23rd	49·1	42·0	45·6	+ 3·8	25	0	6	0·42	—	*30·3*	—	*43*	—	*Weymouth.*
	p Plymouth	55	25th	37	21st	51·7	42·2	47·0	+ 4·6	35	0	7	1·09	+ 0·45	28·6	+ 7·6	40	+11	Plymouth.
	p Falmouth	54	25th	38	21st	50·5	42·1	46·3	+ 3·0	30	0	7	1·22	+ 0·39	32·6	+ 9·5	45	+13	Falmouth.
															34·0	+*12·6*	*48*	+*18*	*Torquay.*
	a Malin Head	52	21st	37	20th, 23rd	47·0	38·7	42·9	+ 1·9	20	9	7	1·61	+ 1·08	*	*	*	*	*
	a Blacksod Point ..	54	21st	37	21st	50·7	40·0	45·4	+ 2·7	32	6	6	1·50	+ 0·63	*	*	*	*	*
a, West.	p Markree Castle ..	56	21st	34	20th	50·0	38·4	44·2	+ 3·8	31	10	7	1·86	+ 1·11	22·5	+ 5·4	33	+ 8	Markree Castle.
	a Birr Castle	58	21st	31	20th	52·0	36·1	44·1	+ 3·4	39	17	7	0·99	+ 0·47	*25·7*	+ *7·9*	*36*	+*11*	*Birr Castle.*
b, East.	p Armagh	56	21st	34	20th, 22nd	50·3	36·9	43·6	+ 3·5	33	14	7	1·32	+ 0·81	26·7	+10·0	39	+15	Armagh.
	a Donaghadee	57	21st	35	20th	49·4	38·6	44·0	+ 3·0	28	10	7	0·86	+ 0·31	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	59	21st	35	20th	51·8	40·0	45·9	+ 3·4	36	6	7	0·33	− 0·16	36·9	+17·2	53	+25	Phœnix Park.
	a Kilkenny	56	21st	28	20th	51·6	36·7	44·2	+ 3·1	38	15	7	1·05	+ 0·44	*	*	*	*	*
	a Waterford	55	24th, 25th	32	20th	51·9	39·0	45·5	+ 3·7	37	8	6	0·57	− 0·19	*	*	*	*	*
	a Birr Castle	58	21st	31	20th	52·0	36·1	44·1	+ 3·4	39	17	7	0·99	+ 0·47	25·7	+ 7·9	36	+11	Birr Castle.
	a Foynes	57	21st	35	20th	52·1	39·5	45·8	+ 3·0	37	7	7	1·55	+ 0·82	*	*	*	*	*
b, West.	a Cahir .. .. M	54	21st, 24th	35	20th	51·5	38·1	44·8	+ 3·1	36	11	7	1·32	—	*	*	*	*	*
	a Killarney	57	21st	34	20th	53·6	38·5	46·1	+ 3·3	43	10	7	1·86	+ 0·66	*	*	*	*	*
	a Valencia	55	21st	34	21st	52·3	40·3	46·3	+ 1·9	37	5	7	1·41	+ 0·23	16·5	− 3·1	23	− 4	Valencia.
	a Roche's Point ..	55	25th	37	20th, 21st	51·1	40·0	45·6	+ 2·1	34	6	7	0·90	+ 0·07	28·7	—	40	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	53	25th	41	20th	51·3	43·4	47·4	+ 2·2	38	0	6	0·41	− 0·22	30·8	+ 7·5	43	+10	Scilly.
	a Jersey, St. Aubins ..	53	23rd	38	21st	51·3	42·0	46·7	+ 3·6	33	0	5	0·49	− 0·05	31·9	+ 7·1	44	+10	St. Heliers.
	a Guernsey	52	23rd, 24th	40	21st, 24th	51·1	42·5	46·8	+ 3·0	34	0	4	0·77	+ 0·14	30·8	+ 6·8	43	+10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 28·5 hrs.* (+ *7·5 hrs.*), *40 %* (+*11 %*); *Bournemouth, 34·6 hrs., 49 %*; *Bognor, 31·6 hrs., 45 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 36° or less.	Grass Min. Lowest reading.	Mean Earth Temp At 1 foot.	Mean Earth Temp At 4 feet.
			°	°	°
0.	Baltasound	—	—	37·3	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·0
	Crathes	5	16	37·7	38·8
	Balmoral	5	17	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	2	25	38·6	—
2.	Cockle Park	3	23	38·8	40·2
	Durham	2	25	—	—
	York	—	—	40·9	41·1
	Hull	2	25	40·4	41·0
	Lincoln	—	—	39·8	40·3
	Rauceby	1	24	41·8	42·1
3.	Norwich	1	27	—	—
	Yarmouth	—	—	40·7	42·0
	Lowestoft	1	27	41·4	41·5
	Cambridge	2	21	41·7	42·1
	Clacton-on-Sea ..	2	19	42·2	43·6
	Southend	2	23	42·3	—
	Tottenham	1	27	—	42·6
4.	Harrogate	2	28	40·5	40·7
	Huddersfield ..	1	30	40·7	40·4
	Buxton	1	24	39·8	40·5
	Sheffield	1	29	40·3	40·5
	Nottingham.. ..	1	24	40·6	39·8
	Birmingham.. ..	1	25	41·6	43·3
	Oxford	2	24	—	—
	Hereford	2	25	—	—
	Cirencester	2	24	42·0	42·1
	Bath	—	—	43·0	42·7
5.	Margate	—	—	41·8	41·6
	Greenwich	2	25	—	—
	Westminster ..	2	25	—	—
	Kew	2	22	42·2	42·4
	Canterbury	1	26	41·7	42·8
	Tunbridge Wells ..	2	21	40·4	—
	Wisley	2	26	41·8	41·9
	Worthing	2	23	42·1	42·7
	Portsmouth	2	24	43·2	44·1
6.	Glasgow	1	28	—	—
	Rothesay	—	—	—	42·5
	Colmonell	0	33	—	—
6.	Dumfries	0	31	40·9	41·0
	Douglas	0	33	—	—
7.	Aspatria	1	28	41·7	42·4
	Newton Rigg ..	5	25	41·0	40·7
	Burnley	1	24	40·6	40·4
	Southport	1	24	41·4	41·1
	Manchester City ..	0	31	41·5	41·9
	Bettws-y-Coed ..	1	30	42·4	43·0
8.	Llangammarch Wells	3	15	41·9	42·7
	Cardiff	2	26	42·4	42·2
	Clifton	1	28	—	—
	Plymouth	1	27	44·8	—
9.	Armagh	1	25	42·6	43·6
	Markree	1	30	43·8	44·2
10.	Dublin, Trin. Coll. ..	1	29	43·7	43·9
11.	Guernsey, Brooklyn	1	28	44·9	44·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	41	41·3
	Kirkwall	43	37	40·7
	Wick	44	43	43·8
SCOTLAND, E.	Cromarty	39	34	36·8
	Pennan Bay	40	39	39·3
	Aberdeen, Cove Bay ..	43	41	42·2
ENGLAND, N.E.	Burnmouth, Berwick ..	39	39	39·0
	Scarborough	44	41	42·8
ENGLAND, E.	Shipwash Lightship ..	42	40	41·0
	Margate‡	43	41	41·9
ENGLAND, S.E.	Eastbourne‡	44	41	42·1
SCOTLAND, W.	Lamlash	45	44	44·4
	Ballantrae	43	41	42·0
ENGLAND, N.W.	Port Erin	46	45	45·0
ENGLAND, S.W.	Newquay	45	45	45·0
	Scilly	49	47	47·6
	Plymouth‡	46	45	45·3
	Salcombe	48	45	46·1
IRELAND, N.W.	Sheephaven	45	44	45·0
	Teelin	48	44	45·7
IRELAND, S.W.	Cleggan	46	44	44·9
	Seafield	48	43	46·1
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

Pyrton Hill, February, 1911.

REGISTERING BALLOON ASCENTS.

* February 1st, 4 p.m.										† February 2nd, 7.0 a.m.					
Height k.m.	Pressure mgd. per sq. cm.	Temperature A°.	Wind. Velocity m.p.s.	Wind. Direction.	Height k.m.	Pressure mgd per sq. cm.	Temperature A°.	Wind. Velocity m.p.s.	Wind. Direction.	Height k.m.	Pressure mgd. per sq. cm.	Temperature A°.	Height k.m.	Pressure mgd. per sq. cm.	Temperature A°.
Ground	1·021	274	2	360°	7·5	·392	236			Ground	1·021	266	6·5	·447	240·5
0·5	·977	271			8·0	·364	232	12	50°	0·5	·976	267	7·0	·416	237
1·0	·919	273	5	20	8·5	·338	228			1·0	·916	271	7·5	·387	234
1·5	·862	273			9·0	·315	225	12	48	1·5	·861	273	8·0	·360	229·5
2·0	·811	270	8	30	9·5	·291	221			2·0	·809	270	8·5	·336	225·5
2·5	·763	268			10·0	·271	216	13	45	2·5	·760	268·5	9·0	·311	222
3·0	·715	268	9	40	10·4	—	—			3·0	·712	265	9.5	·288	218
3·5	·672	266·5			11·0	·231	208	15	45	3·5	·670	262	10·0	·268	214·5
4·0	·631	262	10	43	12·0	·196	203			4·0	·627	259·5	10·4	—	212
4·5	·591	258			12·3	—	202 or 204	16	45	4·5	·587	256	11·0	·231	213
5·0	·551	255	12	45	13·0	·168	205			5·0	·550	251	12·0	·196	213
5·5	·518	251·5			14·0	·141	211	15	45	5·5	·512	247	12·3	—	214
6·0	·484	248	16	45	14·3	—	213			6·0	·478	243·5			
6·5	·451	245			15·4	—	210 ?	14	45						
7·0	·421	240	15	55											

* Clear, light N. wind. Viewed by two theodolites for 49 and 74 minutes. Last seen at 15 km. height, bearing S.W. Fell at Tidworth, 64 km., 227°. † Clear, cold morning. Too dark for theodolite. Calm. Fell at Ellvebourne, 92 km., 227°.

REGISTERING BALLOON ASCENTS.

MANCHESTER, February 2nd, 1911. 7·05 a.m.

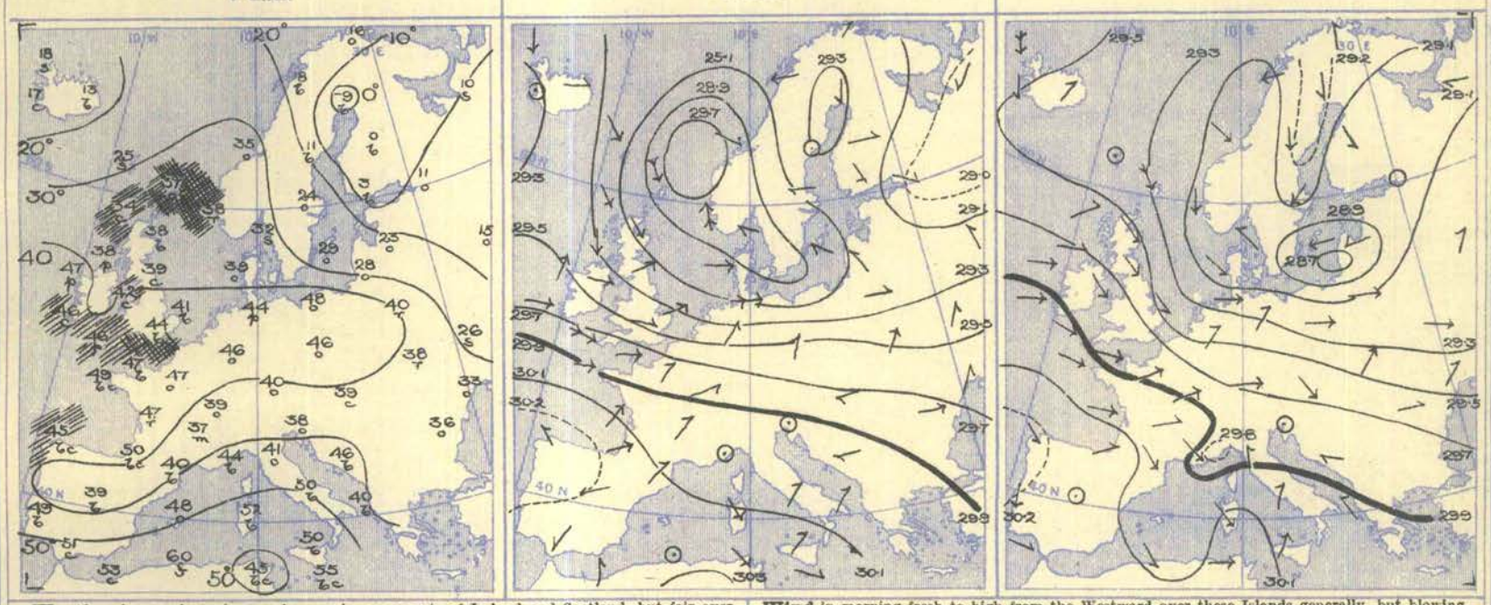
Height Km.	Pressure. Mgd. per sq. cm.	Temperature. A°.	Height. Km.	Pressure. Mgd. per sq. cm.	Temperature. A°.	Height. Km.	Pressure. Mgd. per sq. cm.	Temperature. A°.	Height Km.	Pressure. Mgd. per sq. cm.	Temperature A.°
Ground											
0·5	1·039	271·5	5·0	·591	255·5 258·5	9·5	·315	220·5 224	18·0	·088	217·5
1·0	·978	280 283·5	5·5	·554	252·5 255·5	10·0	·293	217 219	19·0	·075	218
1·5	·919	279 282	6·0	·519	248·5 252	11·0.	·272	209·5	20·0	·064	218·5
2·0	·864	275 279	6·5	·484	246 249·5	12·0	·235	208·5	20·5	·055	
2·5	·814	271 274	7·0	·452	241·5 244·5	13·0	·200	211	22·0	·051	
3·0	·766	266·5 270	7·5	·421	238 240·5	14·0	·169	213	23·0		
3·5	·720	263 266·5	8·0	·392	233 236	15·0	·144	215·5	24·0		
4·0	·674	261·5 263·5	8·5	·364	227·5 230	16·0	·123	216·5	25·0		
4·5	·631	259 261·5	9·0	·339	225 227·5	17·0	·104	217			

Balloon fell near Lake Vyrnny, Montgomeryshire, distant 117 km., direction 226°. Mean Temperature Gradient (Ground to 7 km.) 0·43 per 100 metres. Height at which upper inversion was reached 11·8 km., temperature 207° A. Lowest temperature 207° A at 11·8 km. Greatest height 20·5 km.

Sunday, 19th February, 1911

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy or showery in some parts of Ireland and Scotland, but fair over these Islands generally. Fair to overcast at most stations over the northern half of the Continent, and rain or snow falling in some central and northern regions. Fine and bright over most of southern Europe and the Mediterranean, but rainy in the west of France. Some rain later in most parts of the United Kingdom and in places over a very wide area on the Continent. A thunderstorm, with 0·65 in. of rain, occurring at Besançon.

Temperature fallen generally, risen on the shores of the Mediterranean. Morning readings ranging from 60° at Algiers and above 50° at nearly all other stations in the extreme south to below 40° in the north of these Islands and in patches on the Continent, and to below zero in the north of Sweden. Maxima during day above 50° in various parts of this country and France, and as high as 68° at Perpignan. Thermometer rising to 70° at Algiers, 64° at Malta, and to above 60° at many southern stations. Maximum only 33° at Turin and 41° at Trieste.

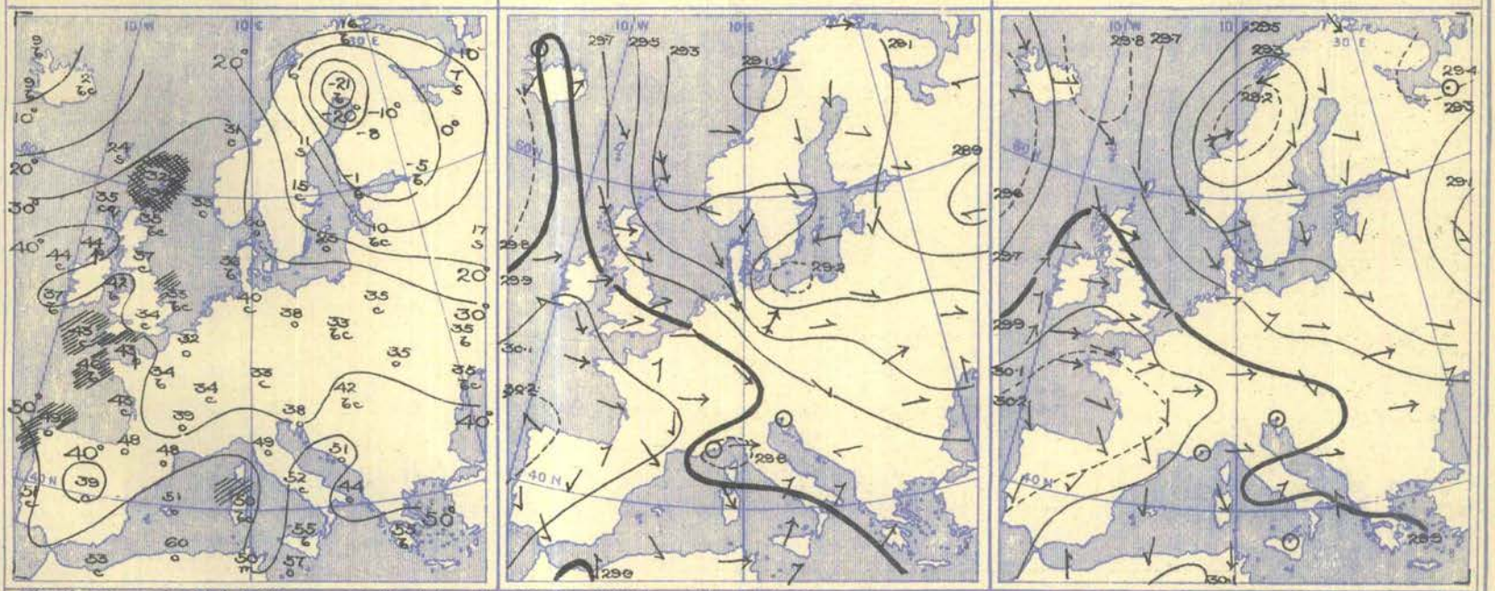
Wind in morning fresh to high from the Westward over these Islands generally, but blowing a gale on the south-west coast of England, and a strong gale from the North-Westward in Shetland. A Westerly gale prevailing at the mouth of the Elbe, and a strong Southerly gale on the south-west coast of Norway. Westerly current fresh to very strong at some places in the central countries. No decided current of air on the Mediterranean. Gale continuing throughout the day in Shetland, but subsiding gradually on the south-west coast of England. Wind veering to the North and moderating at Skudesnaes. A gale springing up on the Baltic coast of Germany and also at Vienna.

Barometer in morning above 30·3 in. in an anticyclone between Spain and the Azores; below 28·7 in. in a large depression having its minimum between Shetland and Norway, and relatively low in another system over northern Russia, as well as in a secondary over Denmark. Main depression moving Eastward during day and undergoing considerable modification in form. Pressure increasing quickly over the north of these Islands. A small depression developing in the south-east of France by evening.

Monday, 20th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to bright over nearly the whole of these Islands and their immediate vicinity, but showers of rain or snow falling on our extreme north and north-west coasts. Sky more variable on the Continent, but conditions fair to fine in most regions. Snow prevailing at some Russian and Swedish stations, as well as at Copenhagen and Swinemünde and rain at Cracow and Bilbao. Some rain experienced later over most of the United Kingdom, and rain or snow at various places scattered over a wide area on the Continent.

Temperature fallen over our area generally, but risen in some southern localities. Morning readings ranging from about 20° below zero in the north of Sweden, and below 32° over the north and north-east of Europe as a whole to above 40° in the south-west of England and the west and south of France, about 50° at many stations on the shores of the Mediterranean, and to 60° at Algiers. Maxima during day below 40° in the north of Scotland, but about 50° in the south and south-west of these Islands. Thermometer rising to above 60° at several places in the far south of our area, to 70° at Malaga, 72° at Palermo, and 75° at Tunis. Severe frost continuing in Scandinavia and Russia.

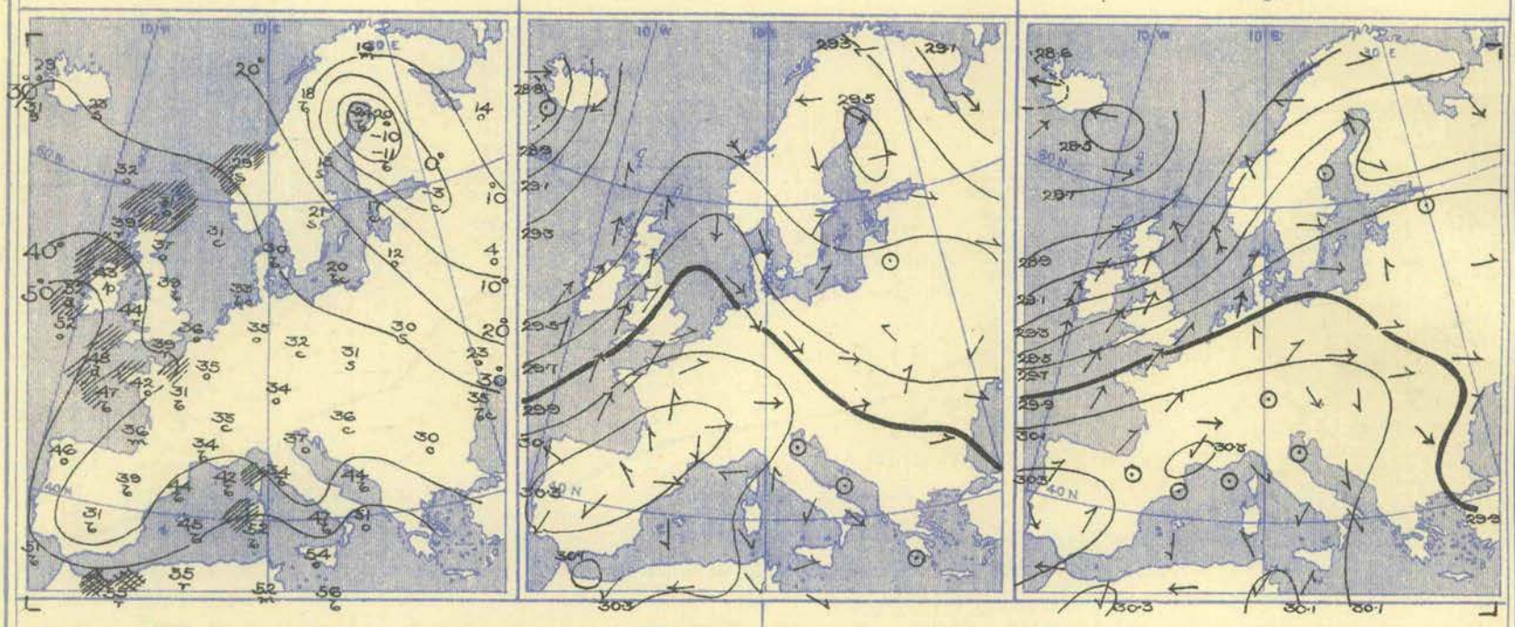
Wind in morning moderate to strong from West or North-West over this country generally, but blowing a strong gale in Shetland. Strong winds or gales prevalent in Germany—from North-North-West at Cuxhaven and from South-West at Berlin. Light breezes from no general point over the Mediterranean. Wind backing towards South in the west of these Islands by evening and beginning to increase in force. Northerly gale continuing in Shetland and extending to the coast of Norway, but wind decreasing greatly in force in Germany.

Barometer in morning above 30·1 in. in the south-west of our area and relatively low in depressions in the east and north; lowest value 28·89 in. at Moscow. Gradient steep or rather so over the United Kingdom and Germany. Another cyclonic disturbance of large size and great depth causing a fresh fall of the barometer in Iceland and the north and west of these Islands during day, but a very brisk rise taking place in the east and north-east of Scotland until the evening. Gradient becoming less pronounced over this country and Germany.

Tuesday, 21st February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning overcast and rainy over the greater part of the United Kingdom. Fair or fine in most Continental regions, but snow falling at some stations in central Europe and also at Christiansund. Rain reported over a considerable area in Algeria. Rain experienced later very generally over these Islands and rain or snow over the northern half of the Continent.

Temperature risen in most parts of this country, fallen over a wide area on the Continent. Morning readings ranging from 24° below zero in the north of Sweden and much below freezing point in the north and north-east of our area generally to above 50° on the west coast of Ireland and at several stations on the shores of the Mediterranean. Rising to 50° or above later in many parts of these Islands, to 58° at Leith and to 59° at Dublin. Maxima about 60° at a few places in the extreme south of France and in Algeria, Sardinia and Malta. Severe frost continuing in the north-east of Europe.

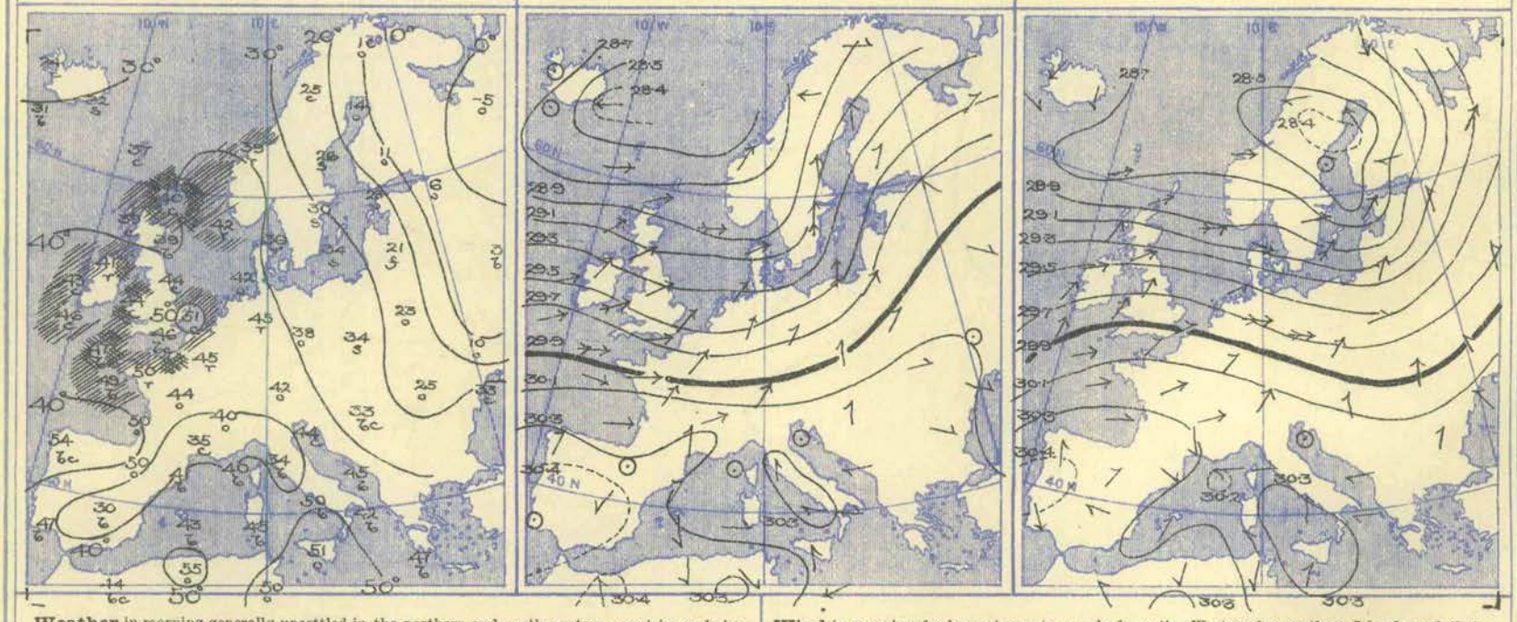
Wind in morning moderate to high from South or South-West on our western coasts, and fresh or strong to a gale from the North-Westward in Scandinavia. Light airs from various directions prevailing over the Mediterranean and also in Russia. Increasing in force from the Southward later over these Islands—to a high wind in many places, and to a gale on some parts of the western coasts. Wind backing to South beyond the North Sea and blowing a gale at Skudesnaes.

Barometer in morning above 30·3 in. in an anticyclone having its maximum over France and Spain. Below 29·1 in. in the extreme north of Russia, and below 28·7 in. in the south-west of Iceland. Distribution rather irregular over eastern and northern Europe. Pressure falling very quickly later in the Icelandic region and briskly over these Islands. The centre of a depression with the barometer as low as 28·4 ins. shown to the Eastward of Iceland at 6 p.m. Gradient increasing considerably over these Islands and the North Sea.

Wednesday, 22nd February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning generally unsettled in the northern and north-western countries and also in central Europe. Showery or rainy at several of our own stations, in the north of France, and beyond the North Sea, and snow falling at Breslau and on the shores of the Baltic. Fair to very fine over southern Europe and the Mediterranean, as well as in various parts of the United Kingdom. Rain subsequently in nearly all parts of this country, and rain or snow over a large area over the northern countries of the Continent. A thunderstorm occurring in Shetland, thunder and a display of aurora at Wick.

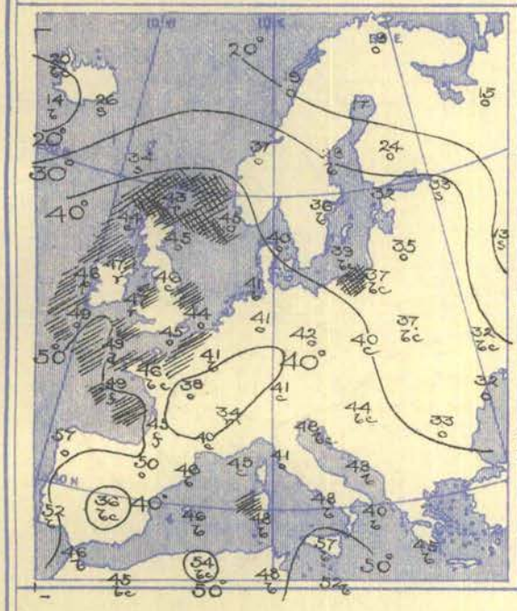
Temperature fallen in Ireland, risen over Great Britain and in most Continental regions. Morning readings about 55° at a few places in the far south of our area and 51° at Great Yarmouth; below 30° in the east and north of the Continent, and 5° below zero at Archangel. The maxima of the day again above 50° in many parts of England and Ireland and above 60° over a large area in the south of Europe; at Perpignan thermometer rising to 69°. In central Europe, and also at Turin, readings mostly below 48°. Frost continued throughout the day in nearly the whole of Russia, Finland, and northern Scandinavia.

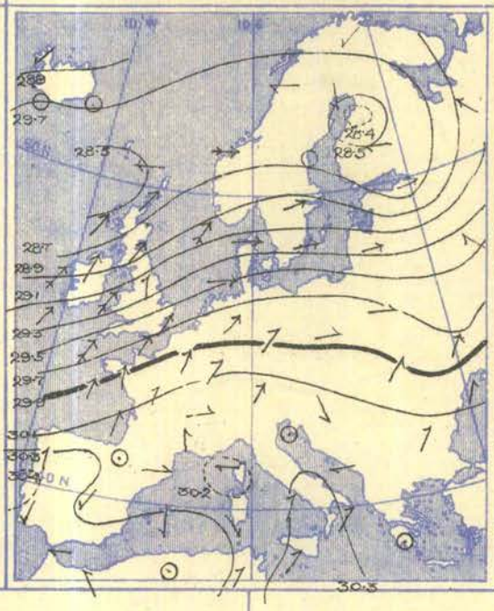
Wind in morning fresh or strong to a gale from the Westward over these Islands and their neighbourhood, and from the Southward over Scandinavia. Light airs from various points prevailing over Russia and also over the Mediterranean region. Decreasing in force in most parts of the United Kingdom during day, but backing towards South-West or South in the west and increasing again at night. Veering to West over Norway and blowing a gale, and increasing greatly from the Southward in Finland.

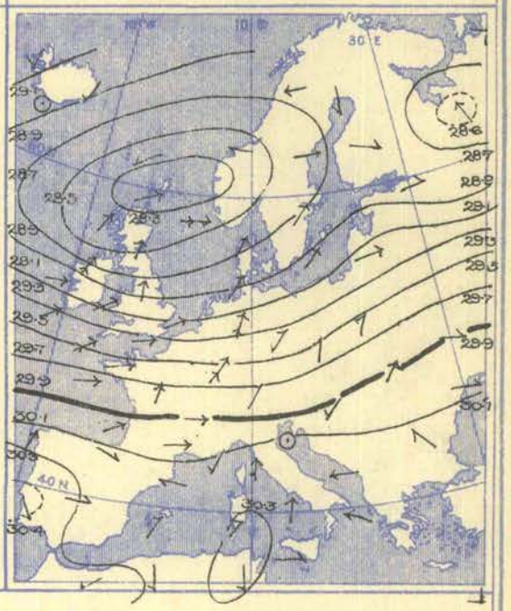
Barometer in morning below 28·4 in. in a large depression having its minimum off the east of Iceland; above 30·2 in. over the southern regions of Europe, and above 30·4 in. over the Spanish Peninsula and the adjacent portion of the ocean. Depression travelling Eastward during day, but another disturbance beginning to affect the barometer in the west of the United Kingdom, and causing a rapid fall during night, with an increased gradient. Gradient growing very steep during day over Russia and Finland and continuing steep over Scandinavia and the Baltic.

Thursday, 23rd February, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.







Weather in morning rainy in the west and north of these Islands and very cloudy or overcast in their immediate neighbourhood. Fair or fine in most other regions, but snow falling at Moscow and St. Petersburg. Fog prevailing along the west coast of France and at the mouth of the Channel. Showers of rain, hail or snow during day in all parts of Western Europe, and lightning observed at Donaghadee at night.

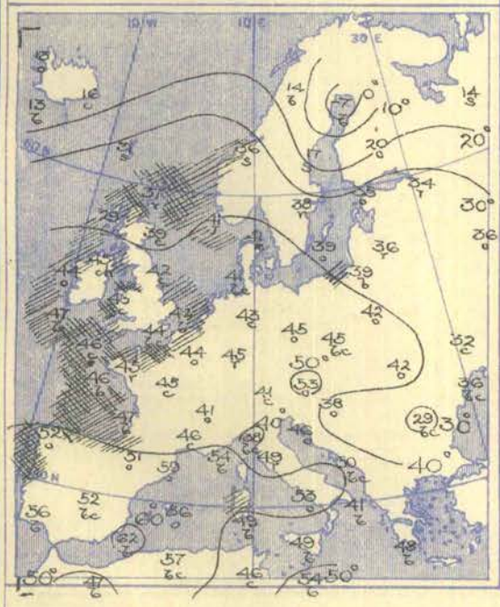
Temperature risen in Sweden and the western and northern districts of the United Kingdom, fallen or changed irregularly elsewhere. Morning readings ranging from 57° at Corunna and 54° at Algiers and Sanguinaire to between 45° and 50° over most of this country, and to many degrees below freezing over the major portion of Russia and the north of Scandinavia. Maxima during day above 50° in most parts of the British Islands, France and Germany, and above 60° at some stations in southern Europe.

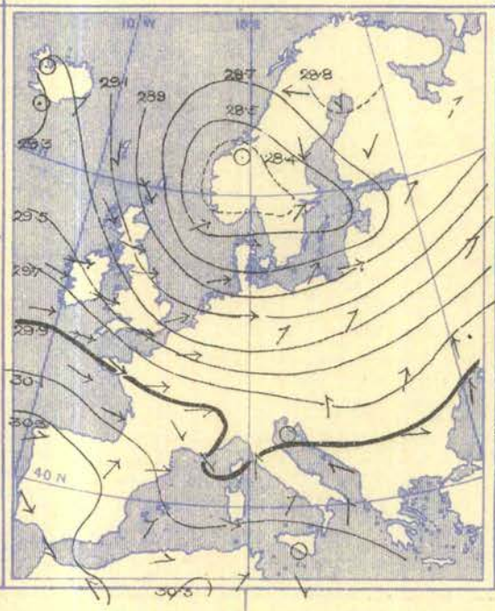
Wind in morning strong to a gale from South-West or South over these Islands, and from South-West or West in Norway and on the Baltic. Moderate to strong from the South-Westward over the central countries of the Continent, and light and variable over the Mediterranean. A complete cyclonic movement shown over Finland, but of moderate strength. Veering to the Westward during day in many parts of these Islands, but gale continuing generally. Increasing to a strong wind or gale from South-West in the northern parts of France and Germany.

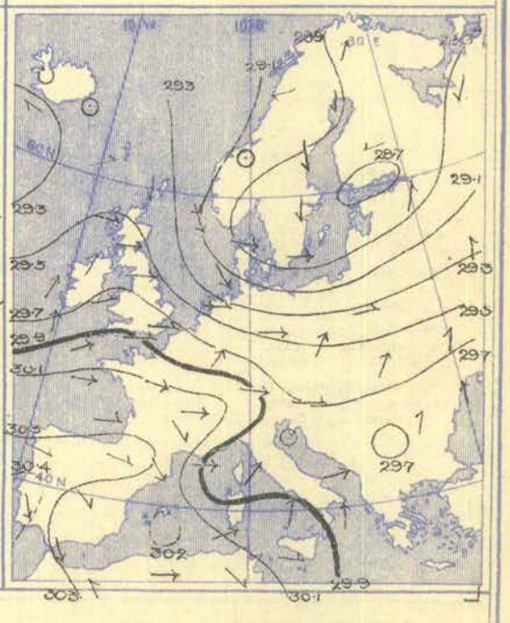
Barometer in morning below 28·4 in. in a depression centred over the north of Finland, and nearly as low in another having its minimum between Scotland and Iceland. Relatively low over Corsica and the Gulf of Genoa, but high in the south generally, and above 30·4 in. over the ocean to the westward of Portugal. Low pressure systems in the north both moving Eastward later, but scarcely any change in the distribution.

Friday, 24th February, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.







Weather in morning generally unsettled over the western and northern countries, with rain in places over a wide area, but fair at most stations. Rainy at Toulouse, Sanguinaire, and Florence, but conditions fair to fine in the south generally. More or less precipitation occurring later over the major portion of our area, but large districts in the south remaining dry.

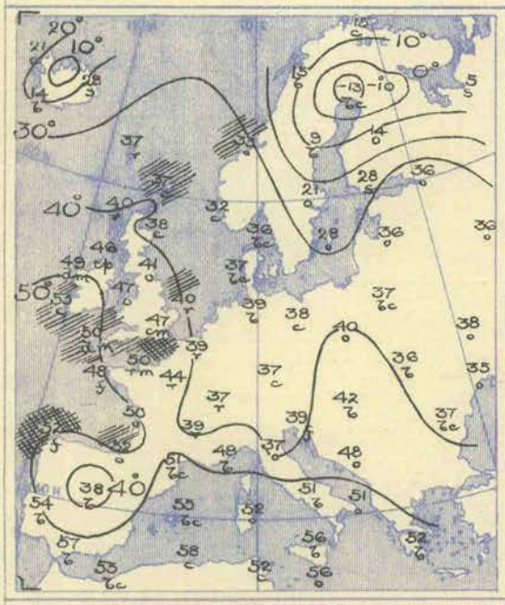
Temperature fallen in these Islands and Scandinavia, risen in France and Germany. Morning readings ranging from 59° at Barcelona and 57° at Algiers to about 45° at many places in central Europe and the United Kingdom, to below 32° in the east and north of the Continent, and to 7° below zero at Haparanda. Rising later to about 50° at most of our own stations, to 55° or above over a large portion of France and in Italy, to 66° at Nice and Palermo, and to 68° at Monaco and on the coast of Algeria.

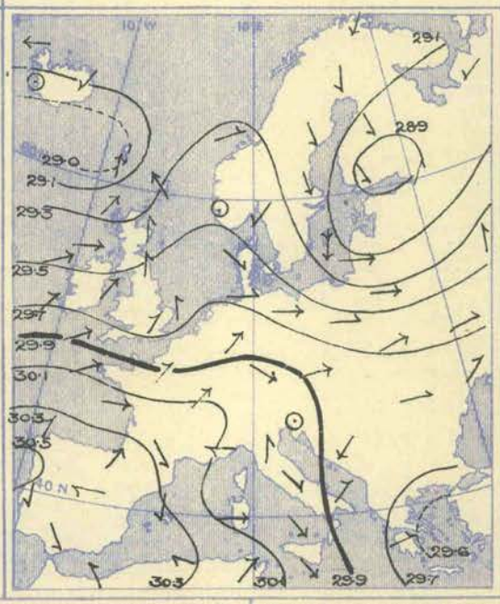
Wind in morning cyclonic in all parts o our area except the south-west. Westerly current strong to a gale over these Islands, the North Sea, and the Baltic region, and fresh or strong over France and central Europe. A high wind from East prevailing at Uleaborg. Little change as a whole later, but backing to the Southward by evening in the west of these Islands, and veering somewhat on the shores of the Mediterranean and increasing in force.

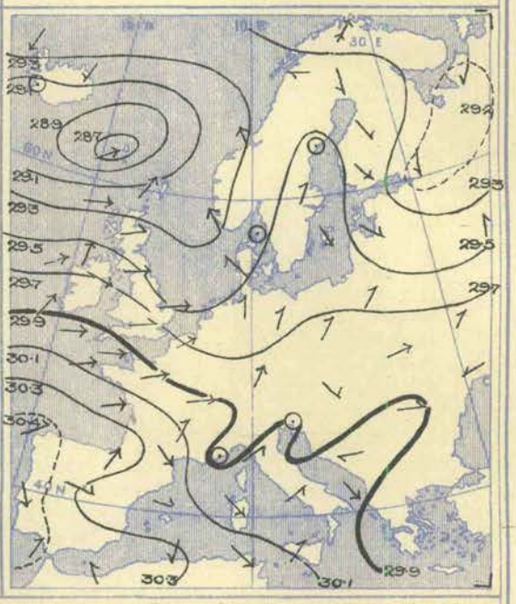
Barometer in morning above 30·4 in. in Portugal and between that country and the Azores; below 28·4 in. in a large and deep depression centred over southern Scandinavia. Disturbance travelling Eastward during day and pressure recovering quickly in its rear in Scotland and over the North Sea. Another fall of the barometer setting in by evening along the western seaboard of these Islands. Some irregular changes in pressure on the Mediterranean causing a steeper gradient in places

Saturday, 25th February, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.







Weather in morning overcast in nearly all parts of these Islands, France, and the Netherlands, with rain in many localities, and mist or fog at the mouth of the Channel. Dry generally, with fair to clear skies over southern Europe, but with much cloud in the central and northern regions. Rain falling at Memel and snow at Archangel. Rain later in the United Kingdom and in most parts of France, Germany, and the Low Countries, and in several other parts of the Continent.

Temperature risen in the United Kingdom, fallen over the greater part of the Continent. Morning readings ranging from –13° at Haparanda and below 32° in the north of Europe generally to between 35° and 40° over a large area in central Europe to 50° or rather higher in the south-west of these Islands and on many shores of the Mediterranean, and to 58° at Algiers. Rising later to about 55° at some Irish and English stations, to above 60° in the south of France, to nearly 70° in Algeria, and to above 70° at Palermo and Madrid. Maxima below 50° in the central countries and very little above zero in the north of Sweden.

Wind in morning anticyclonic in the south-west of our area, cyclonic elsewhere, the chief circulations being in the north-west and north-east. Westerly current fresh to high on our western and southern coasts, and blowing a gale at Le Havre. Northerly current strong to a gale on the Gulf of Bothnia. Increasing somewhat in force over most parts of this country by evening, and Easterly current in Iceland growing stronger. Northerly gales and strong winds being succeeded by light variable airs on the Gulf of Bothnia.

Barometer in morning above 30·4 in. over most of the Spanish Peninsula and between that region and the Azores. Below 29·0 in. in a depression centred near Thorshavn, and a little lower in another over the Gulf of Finland. Former apparently increasing considerably in depth during day, but latter moving eastward and becoming less deep. No change of importance within the high pressure system. Gradient increasing over the north of this country and between Scotland and Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	Feb. 20th, 10.0 a.m. to 11.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	277·5° 85% 260°, 5		274·5° 90% 280°, 12	270·5° 80% 300°, 19	269° 60% 320°, 17				1,530	Clear sky. Cirrus from N.N.W.
2	Feb. 21st, 10.7 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	278·5° 95% 200°, 9	278° 95% 200°, 16	276·5° 100% 215°, 20					275° 100% 215°, 23	900	Clouds at 500 m. Very gusty.
3	Feb. 22nd, 4.0 p.m. to 4.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	280° 75% 260°, 16	75% 260°, 19	90% 270°, 22					95% 270°, 25	650	Temperature pen failed. Gale.
4	Feb. 24th, 4.0 p.m. to 4.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	281° 70% 280°, 13	280·5° 70% 290°, 16	278·5° 80% 295°, 20					275° 90% 295°, 24	800	Clear sky. Very rough.
5	Feb. 25th, 9.55 a.m. to 10.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	282° 90% 235°, 8	90% 240°, 12	278·5° 90% 260°, 20						500	Clear. Kite flew badly and had to be drawn in.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5
No. of Kites..	1	1	1	1	1
Area of Surface (sq. metres) ..	8	4	4	4	4
Capacity of Balloon (cub. metres)	—	—	—	—	—
Length of Wire (metres)	2,150	650	650	900	500

South Kensington, London, S.W. *March 1st, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 9. NINTH WEEK, SUNDAY, FEBRUARY 26TH, TO SATURDAY, MARCH 4TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather. The conditions continued very unsettled, with frequent falls of rain over the greater part of the Kingdom, but occasional intervals of clear sky. Rainless periods were much more common in the east and south-east than elsewhere. Aurora was seen at Gordon Castle and Aberdeen on February 28th.

Temperature was above the average, the excess being about 6½° in England E. and Midland Counties, about 6° in England N.E. and N.W., and more than 4° in almost all other parts of the Kingdom. The highest of the maxima occurred on March 2nd or 3rd at the majority of the stations, and ranged from 60° in the Midland Counties and 59° in England E. to 54° in Scotland N. and England S.W., and to 53° in the English Channel. The lowest of the minima, were recorded on the 27th, except in Ireland and the south-west of England, where they were mostly registered on March 1st. They ranged from 22° in Scotland E. (at Balmoral), to 35° in Ireland S., and to 42° in the English Channel. The lowest grass readings were 19° at Crathes and Balmoral, 22° at Morpeth and Llangammarch Wells, and 23° at Durham, Norwich and Newton Rigg.

Mean Temperature of the Sea differed considerably from that of the corresponding week of last year on many parts of the coast. At Cromarty it was 5° lower, and at Scarborough and Teelin about 3½° higher. The figures varied from 48° at Scilly and 46·7° at Seafield to below 40° at some places on the north-east coast, and to 37° at Cromarty.

Rainfall exceeded the normal except in England N.E. In most of the western and northern districts the total fall was large. Falls of an inch were rare, but on February 27th, 1·28 in. occurred at Cardiff, and 1·85 in. at Arlington, while on March 1st there was 1·0 in. at Glencarron.

Bright Sunshine was more than the normal generally, but slightly less in England S.E and S.W., and in Ireland S. The percentage of the possible duration ranged from 43 in Scotland E., and 38 in England N.E., to 28 in England S.E., and to 27 and 26 respectively in Ireland N. and S.

Barometer and Wind. In its main features the pressure distribution was very similar to that prevailing during the preceding week, the barometer being generally highest in an anticyclonic extension stretching from Azores to France or beyond, while large depressions travelled from Iceland to Norway or the Arctic Sea causing steep gradients at times over this country. The wind current was consequently between South and West, and during the earlier days of the period it blew a fresh to strong breeze on most parts of the coast, and reached the force of a high wind or gale in exposed places. Later its force became more moderate generally, although it still blew strongly at times. At the end of the week a "V-shaped" secondary disturbance passed across Ireland and England from the west, the wind in its rear shifting to the North-Westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 76.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Very unusual	Unusual
	Rainfall ...	Heavy	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy
	Sunshine ...	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 13 weeks from Dec. 4th, 1910.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

PAST SEASONS.

WINTER, 1909-10. Dec. 5th-March 5th. 13 weeks.	Warmth ...	1 * 5	2 * 4	3 * 4	4 * 2	3 * 2	5 * 4	3 * 4	5 * 3	4 * 4	3 * 6	2 * 6	4 * 4
	Rainfall ...	4 * 2	5 * 2	5 * 2	6 * 1	7 * 2	5 * 2	6 * 1	7 * 1	7 * 2	6 * 3	6 * 3	5 * 3
	Sunshine ...	10 * 2	6 * 0	4 * 2	7 * 2	8 * 2	8 * 2	5 * 1	8 * 0	6 * 1	4 * 4	4 * 1	3 * 3
SPRING, 1910. Mar. 6th-June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th-Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th-Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINTH WEEK—February 26th to March 4th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	*	*	*	*	*	*	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	54	28	47·3	35·4	41·2	+ 3·3	15	+ 9	26	− 10	7	+ 2	1·61	+0·70	22	+ 5	30	+ 7
Eastern																		
1. SCOTLAND, EAST	56	22	48·6	35·1	41·7	+ 4·4	18	+11	28	− 13	5	+ 1	0·55	+0·04	31	+ 11	43	+16
2. ENGLAND, N.E.	58	27	51·2	38·8	44·8	+ 6·1	33	+23	9	− 24	4	0	0·29	−0·06	28	+ 7	38	+10
3. ENGLAND, EAST	59	30	51·7	39·5	45·4	+ 6·6	34	+21	7	− 30	5	0	0·56	+0·21	24	+ 2	32	+ 3
4. MIDLAND COUNTIES	60	31	51·6	39·7	45·5	+ 6·7	34	+20	6	− 30	5	+ 1	0·61	+0·19	23	+ 5	32	+ 7
5. ENGLAND, S.E.	58	34	50·9	41·2	45·9	+ 5·9	31	+16	2	− 27	4	0	0·69	+0·23	21	− 1	28	− 1
Western																		
6. SCOTLAND, WEST	55	30	49·1	38·8	43·8	+ 4·7	26	+17	9	− 21	6	+ 2	1·26	+0·44	23	+ 5	31	+ 7
7. ENGLAND, N.W.	57	31	50·3	40·6	45·3	+ 5·8	29	+18	4	− 25	7	+ 4	1·22	+0·67	21	+ 1	29	+ 2
8 ENGLAND, S.W.	54	32	50·0	42·3	46·0	+ 5·0	28	+11	0	− 24	6	+ 3	1·41	+0·71	18	− 5	23	− 6
9. IRELAND, NORTH	58	34	51·0	40·1	45·4	+ 4·9	32	+17	5	− 20	6	+ 1	1·04	+0·39	20	+ 1	27	+ 2
10. IRELAND, SOUTH	58	35	53·0	42·9	47·8	+ 5·6	41	+20	0	− 19	6	+ 2	0·96	+0·22	19	− 3	26	− 4
11. ENGLISH CHANNEL	53	42	51·4	44·8	48·0	+ 4·2	42	+19	0	− 9	6	+ 2	0·70	+0·09	22	− 5	30	− 6

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 13 Weeks, December 4th, 1910, to March 4th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	55	14	*	*	*	*	157	+ 63	274	−178	73	+ 6	17·37	+1·11	103	− 2	15	0
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	154	+ 56	345	−188	54	+ 2	6·64	−0·99	180	+28	25	+ 4
2. ENGLAND, N.E.	58	19	*	*	*	*	205	+ 90	271	−155	46	− 1	4·30	−1·11	168	+ 8	22	+ 1
3. ENGLAND, EAST	59	16	*	*	*	*	217	+ 88	301	−181	56	+ 6	5·78	+0·67	179	0	23	0
4. MIDLAND COUNTIES.. ..	60	14	*	*	*	*	216	+ 70	291	−192	49	+ 1	5·77	−0·53	159	+ 7	21	+ 1
5. ENGLAND, S.E.	58	16	*	*	*	*	228	+ 47	267	− 93	48	0	6·74	−0·02	192	+18	24	+ 2
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	197	+ 60	216	−142	67	+ 8	14·57	+0·88	137	+ 4	19	+ 1
7. ENGLAND, N.W.	58	17	*	*	*	*	199	+ 56	211	−139	55	+ 2	8·99	+0·31	157	+16	21	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	229	− 2	196	− 73	57	+ 3	10·98	−0·09	177	+ 1	23	0
9. IRELAND, NORTH	58	18	*	*	*	*	249	+ 69	195	−109	62	0	8·35	−1·61	161	+ 9	22	+ 1
10. IRELAND, SOUTH	59	18	*	*	*	*	303	+ 26	189	− 42	62	+ 5	9·03	−2·64	173	− 5	22	− 1
11. ENGLISH CHANNEL	57	29	*	*	*	*	368	+ 20	81	− 17	56	− 5	7·19	−2·22	209	−11	26	− 1

THE YEAR.—Aggregates, &c., for the Period of 9 Weeks, January 1st to March 4th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	55	14	*	*	*	*	89	+ 29	219	−111	46	0	12·41	+1·45	86	− 2	17	0
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	85	+ 17	284	− 93	34	− 1	4·33	−0·66	143	+ 19	27	+ 4
2. ENGLAND, N.E.	58	19	*	*	*	*	124	+ 44	221	− 80	28	− 5	2·51	−0·88	134	+ 8	25	+ 1
3. ENGLAND, EAST	59	16	*	*	*	*	112	+ 22	253	− 86	36	+ 2	3·26	−0·11	147	+ 7	26	+ 1
4. MIDLAND COUNTIES.. ..	60	14	*	*	*	*	122	+ 18	244	− 92	27	− 6	2·57	−1·61	129	+ 9	23	+ 2
5. ENGLAND, S.E.	58	16	*	*	*	*	103	− 15	227	− 32	29	− 3	3·12	−1·33	152	+ 18	27	+ 3
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	123	+ 34	182	− 80	40	0	9·39	+0·54	110	+ 4	20	+ 1
7. ENGLAND, N.W.	58	17	*	*	*	*	111	+ 17	184	− 67	32	− 4	5·29	−0·38	126	+ 13	23	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	113	− 38	173	− 26	33	− 3	4·97	−2·04	142	+ 6	25	+ 1
9. IRELAND, NORTH	58	18	*	*	*	*	153	+ 28	168	− 49	37	− 5	5·40	−1·13	132	+ 14	24	+ 3
10. IRELAND, SOUTH	59	18	*	*	*	*	189	+ 3	171	+ 6	37	− 1	4·94	−2·61	139	+ 3	25	+ 1
11. ENGLISH CHANNEL	53	29	*	*	*	*	188	− 31	81	+ 2	33	− 8	3·47	−2·44	158	− 10	27	− 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*49*	*3rd*	*32*	*26th*	*43·2*	*33·7*	*38·3*	—	*3*	*29*	*6*	*0·70*	—	*14·0*	—	*20*	—	*Baltasound.*
	a Sumburgh Head ..	49	28th, 3rd	31	27th	46·7	34·0	40·2	+ 1·9	13	30	6	0·98	+ 0·26	25·3	+ 7·6	36	+11	Deerness.
	a Stornoway	52	3rd	33	26th, 27th	48·0	36·9	42·3	+ 3·2	24	14	7	1·39	+ 0·40	23·6	+ 5·0	33	+ 7	Stornoway.
	a Castlebay, Barra Isd.	*50*	*3rd*	*35*	*1st*	*47·9*	*39·1*	*43·4*	+ *1·8*	*22*	*8*	*7*	*0·58*	—	*23·2*	—	*32*	—	*Castlebay.*
	a Wick	52	3rd	30	27th	46·0	33·9	39·8	+ 1·6	11	30	7	0·75	+ 0·23	*	*	*	*	* *
	p Strathpeffer.. ..	54	3rd	28	27th	47·3	34·4	40·7	+ 2·9	15	29	7	0·89	+ 0·26	22·3	+ 4·6	31	+ 6	Strathpeffer.
	p Glencarron .. S	50	28th	30	27th	47·2	35·7	41·3	+ 4·2	15	25	7	2·86	+ 1·09	*	*	*	*	* *
	p Fort Augustus S	53	3rd	28	27th	48·0	35·8	41·7	+ 3·4	17	25	7	1·63	+ 0·68	16·9	+ 3·4	24	+ 5	Fort Augustus.
	p Fort William S	51	3rd	31	27th	48·2	37·3	42·6	+ 3·2	24	13	7	2·77	+ 1·10	*	*	*	*	* *
1. SCOTLAND, E.	*p* Gordon Castle S	54	28th	30	27th	48·8	35·7	42·1	+ 3·2	27	18	6	0·25	- 0·27	*31·5*	—	*41*	—	*Gordon Castle.*
	a Nairn	54	3rd	29	27th	48·6	34·1	41·1	+ 2·8	18	31	7	0·36	- 0·09	28·4	—	39	—	Nairn.
	a Aberdeen	56	3rd	30	27th, 28th	50·0	36·1	42·8	+ 4·1	30	17	6	0·28	- 0·25	34·2	+12·6	48	+18	Aberdeen.
	a Balmoral .. S	54	2nd	22	27th	47·0	32·1	39·3	+ 4·8	14	36	4	0·45	- 0·19	36·7	—	51	—	Crathes S.
	p Crieff .. .. S	54	3rd	28	27th	48·4	35·5	41·8	+ 3·1	18	26	4	0·53	- 0·24	35·0	—	49	—	Balruddery.
	a Leith	55	3rd	33	27th	51·4	38·3	44·7	+ 4·8	34	10	5	0·92	+ 0·57	*	*	*	*	* *
	p West Linton.. S	49	2nd, 3rd	26	27th	46·7	33·8	40·1	+ 3·1	13	31	5	1·12	—	*23·4*	—	*32*	—	*West Linton.*
	p Marchmont .. S	53	3rd	28	27th	47·9	35·1	41·3	+ 3·6	17	27	4	0·50	- 0·03	19·0	- 1·0	26	- 1	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	55	28th, 3rd	27	27th	52·2	37·2	44·5	+ 5·7	38	13	6	0·32	- 0·20	32·7	—	45	—	Cockle Park.
	a Shields	56	3rd	31	27th	51·9	36·7	44·1	+ 4·5	37	15	4	0·34	0·00	*24·6*	+ *8·9*	*34*	+*12*	*Newcastle.*
	p Durham	57	3rd	29	27th	49·4	39·0	44·1	+ 5·7	27	8	3	0·25	- 0·10	29·2	+ 9·2	40	+13	Durham.
	p Rounton .. M	54	2nd, 3rd	30	27th	50·3	37·9	43·9	+ 5·7	31	11	4	0·24	- 0·14	*	*	*	*	* *
	p Scarborough.. M	58	3rd	35	27th, 1st	52·0	39·4	45·5	+ 5·6	35	7	4	0·13	- 0·30	27·1	—	37	—	Scarborough.
	p York	56	3rd	33	27th	51·7	40·4	45·9	+ 6·4	34	4	3	0·21	- 0·17	21·9	+ 3·9	30	+ 5	York.
— b, South.	*a* Spurn Head ..	51	2nd, 3rd	34	1st	48·9	39·0	43·8	+ 4·2	25	8	3	0·29	- 0·01	*	*	*	*	* *
	a Lincoln	56	2nd	33	27th	53·3	39·9	46·4	+ 7·0	40	6	3	0·35	- 0·02	27·1	—	37	—	Skegness.
	a Fulbeck	55	2nd	33	27th	51·2	39·7	45·3	+ 5·6	33	6	4	0·45	+ 0·08	29·5	—	40	—	Rauceby.
3. ENGLAND, E. — a, North.	*p* Cromer	57	3rd	31	26th	50·7	37·6	44·0	+ 5·5	32	12	5	0·37	—	*37·4*	—	*37*	—	*Lowestoft.*
	p Hillington .. M	56	2nd	30	27th	50·9	38·8	44·7	+ 5·6	32	9	5	0·80	+ 0·38	26·5	—	36	—	Cromer.
	a Yarmouth	57	2nd	33	27th, 28th	51·3	39·1	45·0	+ 6·2	33	8	5	0·43	+ 0·09	20·2	- 1·1	27	- 2	Hillington.
	a Norwich	57	2nd	30	27th	51·9	39·5	45·5	+ 6·5	35	7	5	0·67	—	25·6	—	35	—	Yarmouth.
	p Geldeston	59	2nd	31	27th	52·1	39·6	45·7	+ 6·1	36	7	5	0·48	+ 0·14	*	*	*	*	* *
— b, South.	*p* Cambridge	59	2nd	31	27th	52·5	39·7	45·9	+ 6·1	37	6	4	0·40	+ 0·08	26·7	+ 4·2	36	+ 6	Geldeston.
	a Felixstowe	*59*	*2nd*	*32*	*27th*	*52·4*	*39·6*	*45·8*	+ *6·1*	*37*	*7*	*5*	*0·17*	—	24·8	+ 2·3	34	+ 3	Cambridge.
	a Clacton-on-Sea ..	59	2nd	35	27th	52·0	39·6	45·6	+ 6·1	35	7	4	0·38	—	*27·0*	—	*37*	—	*Felixstowe.*
	a Rothamsted ..	59	2nd	32	27th	51·5	39·5	45·3	+ 6·3	34	7	4	0·76	+ 0·33	23·9	—	32	—	Clacton.
	a Shoeburyness ..	*59*	*2nd*	*35*	*27th*	*52·1*	*40·9*	*46·3*	+ *5·9*	*35*	*3*	*4*	*0·31*	+ *0·03*	20·6	- 0·4	28	- 1	Rothamsted.
	p Tottenham	59	2nd	37	27th	52·0	42·5	47·1	+ 6·9	36	0	4	0·75	—	*21·5*	—	*29*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	53	3rd	33	27th	48·6	39·0	43·7	+ 5·7	25	8	5	0·58	+ 0·08	19·7	—	27	—	Tottenham.
	a Bawtry	56	2nd	32	27th	52·4	40·9	46·5	+ 6·9	36	3	3	0·17	- 0·19	26·3	—	36	—	Harrogate.
	p Buxton .. M	*52*	*2nd*	*32*	*27th*	*48·7*	*37·0*	*42·7*	+ *6·3*	*26*	*14*	*6*	*1·55*	+ *0·63*	25·3	+ 7·5	34	+10	Worksop.
	a Nottingham ..	56	2nd	32	27th	52·1	38·4	45·1	+ 5·7	37	10	4	0·37	- 0·01	*17·1*	—	*23*	—	*Buxton.*
	p Birmingham, Edgbsn	58	2nd	36	27th, 1st	50·9	40·1	45·3	+ 6·1	31	5	5	0·63	+ 0·23	21·1	—	29	—	Nottingham.
	a Raunds .. M	60	2nd	33	27th	53·3	38·9	45·9	+ 6·5	40	9	3	0·39	—	22·7	—	31	—	Birmingham.
— b, West.	*a* Oxford	59	2nd	36	1st	52·3	40·6	46·3	+ 6·0	36	4	5	0·81	+ 0·43	*	*	*	*	* *
	a Cheadle .. M	54	2nd	34	1st	50·3	38·1	44·0	+ 5·6	30	11	6	0·86	+ 0·36	21·2	+ 0·8	29	+ 1	Oxford.
	p Shrewsbury	58	2nd	31	27th	52·3	40·5	46·2	+ 5·7	36	4	5	0·46	—	25·4	—	35	—	Sheffield.
	a Hereford .. M	57	2nd	35	27th	51·6	40·7	46·0	+ 5·8	33	4	5	0·66	+ 0·20	*	*	*	*	* *
	a Cirencester	58	2nd	32	27th	51·5	38·1	44·6	+ 5·6	35	11	6	0·86	+ 0·37	24·9	+ 3·3	34	+ 4	Cirencester.
	a Bath	54	28th	38	1st	52·0	41·4	46·5	+ 5·8	34	2	6	0·96	+ 0·46	20·5	—	28	—	Bath.
5. ENGLAND, S.E... ..	*p* Kew	58	2nd	36	27th	52·1	42·0	46·9	+ 6·5	34	0	4	0·61	+ 0·23	*22·2*	—	*30*	—	*Ramsgate.*
	a Marlborough ..	55	2nd	34	27th, 1st	50·6	39·5	44·9	+ 5·7	31	7	6	1·30	+ 0·74	20·2	+ 2·3	27	+ 3	Kew.
	a Margate	54	1st, 2nd	35	27th	51·6	41·5	46·4	+ 6·1	33	1	5	0·40	+ 0·04	21·0	+ 2·6	28	+ 4	Marlborough.
	a Wisley, Surrey ..	57	2nd	36	27th, 1st	50·5	41·6	45·9	+ 5·2	29	1	3	0·42	—	20·9	- 1·0	28	- 1	Margate.
	a Swarraton .. M	54	2nd	34	27th	50·7	40·5	45·5	+ 6·3	31	4	3	0·77	+ 0·24	20·0	—	27	—	Wisley.
	a Tunbridge Wells M	55	2nd	34	27th	50·0	39·8	44·8	+ 5·3	29	6	4	0·77	+ 0·25	23·8	—	32	—	Worthing.
	a Dungeness	54	3rd	34	27th	50·4	39·6	44·8	+ 4·5	30	7	5	0·76	+ 0·39	22·5	+ 1·5	30	+ 2	Tunbridge Wells.
	p Hastings	53	3rd	37	27th, 1st	49·7	41·7	45·6	+ 5·0	26	1	5	0·63	+ 0·13	19·9	—	27	—	Littlestone.
	p Southampton ..	57	2nd	38	27th, 1st	52·2	42·3	47·1	+ 4·9	36	0	4	0·71	+ 0·21	*22·3*	- *2·2*	*30*	- *3*	*Hastings.*
	a Ventnor	54	1st	39	1st	51·0	43·0	46·9	+ 4·6	34	0	4	0·56	+ 0·07	18·2	- 4·8	25	- 6	Southampton.
LONDON .. — ..	*a Westminster* ..	*60*	*2nd*	*36*	*27th*	*52·9*	*43·0*	*47·8*	+ *7·3*	*41*	*0*	*4*	*0·54*	+ *0·17*	19·0	- 6·0	25	- 8	Ventnor.
	a Greenwich	*59*	*2nd*	*34*	*27th*	*52·1*	*41·4*	*46·6*	+ *5·8*	*35*	*2*	*4*	*0·58*	+ *0·19*	23·2	- 0·2	31	0	Eastbourne.
6. — a, SCOTLAND. W. ..	*a* Poltalloch .. S	51	3rd	30	27th	47·7	39·3	43·4	+ 4·2	21	8	7	1·30	+ 0·44	*18·3*	+ *6·9*	*25*	+ *9*	*Westminster.*
	p Glasgow	51	28, 2, 3, 4	33	27th	49·1	38·1	43·4	+ 4·1	26	11	7	1·17	+ 0·55	*18·4*	+ *0·9*	*25*	+ *1*	*Greenwich.*
	p Rothesay .. S	52	2nd	33	26th, 27th	49·4	38·9	44·0	+ 3·9	27	9	6	1·65	+ 0·83	*	*	*	*	* *
	a Kilmarnock	51	27th, 2nd	32	27th	49·0	37·6	43·1	+ 3·9	26	12	6	1·60	—	20·4	+ 6·4	28	+ 9	Glasgow.
	a Colmonell .. S	51	27th	32	27th	49·3	38·6	43·8	+ 4·6	27	10	6	1·29	+ 0·45	*12·2*	—	*17*	—	*Kilmarnock.*
	p Dumfries .. S	52	2nd, 3rd	30	27th	48·4	38·6	43·4	+ 3·8	24	10	6	0·90	+ 0·20	*	*	*	*	* *
	p Cally, Gatehouse S	54	2nd	31	27th	50·3	39·1	44·5	+ 5·3	30	8	6	1·44	+ 0·49	*24·1*	—	*33*	—	*Dumfries.*
— b, ISLE OF MAN ..	*p* Douglas	55	2nd	37	26th, 27th	49·4	40·2	44·7	+ 4·2	26	5	6	1·32	+ 0·58	*	*	*	*	* *
7. — a, ENGLAND, N.W...	*p* Aspatria	52	2nd	33	26th	48·8	37·7	43·1	+ 4·7	26	12	7	1·32	+ 0·72	25·4	+ 3·0	35	+ 4	Douglas.
	p Newton Rigg ..	54	3rd	31	27th	49·3	38·0	43·5	+ 6·1	27	11	5	0·94	+ 0·27	24·0	—	33	—	Hoylake.
	p Stonyhurst	51	2nd, 3rd	34	27th	48·5	39·3	43·8	+ 5·0	24	8	6	2·07	+ 1·26	21·5	—	30	—	Aspatria.
	p Blackpool .. M	51	28th	35	27th	48·1	40·8	44·3	+ 4·4	21	3	7	0·77	+ 0·24	22·8	+ 3·6	31	+ 5	Newton Rigg.
	p M'nch'ster, Prestwich	55	3rd	34	27th	50·3	40·1	45·1	+ 5·9	30	5	7	1·30	+ 0·75	19·9	+ 1·5	27	+ 2	Stonyhurst.
	a Liverpool (Bidston)	55	3rd	37	27th	51·3	41·7	46·4	+ 5·7	32	1	6	0·55	+ 0·10	22·0	+ 2·8	30	+ 4	Blackpool.
	a Hawarden Bridge ..	*56*	2nd	36	27th	53·2	42·2	47·5	+ 6·4	39	0	6	0·41	+ 0·05	*11·0*	- *2·5*	*15*	- *3*	*Prestwick.*
— b, NORTH WALES ..	*p* Llandudno .. M	53	3rd	39	27th	50·9	42·6	46·6	+ 4·7	32	0	7	1·33	+ 0·84	*24·7*	—	*34*	—	*Liverpool.*
	a Holyhead	55	2nd	39	26th, 1st	50·0	41·7	45·7	+ 3·8	27	1	7	1·18	+ 0·60	*22·7*	+ *2·6*	*31*	+ *4*	*Southport.*
	p Bettws-y-Coed ..	57	2nd	35	27th	51·1	40·3	45·5	+ 4·3	32	5	7	2·36	—	—	—	—	—	*Rhyl.*
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	54	2nd	32	27th	49·6	39·5	44·4	+ 5·8	27	7	7	2·02	—	21·2	+ 0·5	29	+ 1	Llandudno.
	a Pembroke	50	2nd	42	27th	48·7	44·0	46·3	+ 4·1	30	0	5	0·85	+ 0·26	19·7	—	27	—	Aberdovey.
	p Cardiff	51	27, 28, 2nd	36	1st	50·0	40·5	45·1	+ 4·2	28	4	7	1·87	+ 1·17	15·8	—	21	—	Bettws-y-Coed.
— b, ENGLAND, S.W. ..	*a* Clifton	53	2nd	39	1st	50·6	42·5	46·4	+ 5·6	31	0	6	1·26	+ 0·72	18·2	—	25	—	Aberystwyth.
	a Shaftesbury .. M	51	3rd	35	1st	48·3	39·3	43·7	+ 4·8	23	8	7	0·90	+ 0·35	12·5	—	17	—	Llangammarch Wells.
	a Arlington	50	27th, 28th	38	1st	48·6	41·3	44·8	+ 4·9	23	2	6	2·87	+ 1·96	22·6	- 0·7	31	- 1	Pembroke.
	a Cullompton .. M	54	28th	39	27th, 1st	52·2	43·2	47·6	+ 6·4	39	0	7	0·98	+ 0·35	*18·6*	—	*25*	—	*Cardiff.*
	a Portland Bill ..	51	2nd	41	1st	49·1	44·1	46·5	+ 4·4	32	0	4	0·64	—	*21·7*	- *2·7*	*29*	- *4*	*Tenby.*
	p Plymouth	54	1st, 2nd	41	1st	51·6	44·2	47·8	+ 5·1	41	0	5	1·27	+ 0·64	*18·8*	—	*25*	—	*Clifton.*
	p Falmouth	54	2nd	42	1st	51·1	44·2	47·6	+ 4·2	39	0	5	1·43	+ 0·63	*	*	*	*	* *
9. IRELAND, N. — a, West.	*a* Malin Head	52	27th	35	27th	48·1	39·7	43·8	+ 2·6	22	6	7	0·35	- 0·17	19·4	- 4·7	26	- 6	Newquay.
	a Blacksod Point ..	53	27th	38	1st	50·3	42·6	46·3	+ 3·5	30	0	6	1·23	+ 0·36	13·8	- 7·7	18	-10	Cullompton.
	p Markree Castle ..	56	2nd	34	4th	52·3	39·8	45·9	+ 5·3	37	6	6	1·90	+ 1·16	*17·4*	—	*23*	—	*Weymouth.*
	a Birr Castle	55	27th	36	1st	51·9	40·0	45·8	+ 5·0	35	6	6	0·85	+ 0·33	15·4	- 8·1	21	-11	Plymouth.
— b, East.	*p* Armagh	58	2nd	35	26th, 1st	51·7	38·3	44·8	+ 4·4	35	10	6	1·17	+ 0·66	20·3	- 5·3	27	- 7	Falmouth.
	a Donaghadee	58	2nd	36	27, 1, 2nd	51·7	39·9	45·6	+ 4·4	34	6	7	0·75	+ 0·20	*17·6*	—	*24*	—	*Salcombe.*
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	58	27th	38	26th, 1st	54·0	42·1	47·9	+ 5·2	41	0	6	0·56	+ 0·11	*19·5*	- *4·7*	*26*	- *6*	*Torquay.*
	a Kilkenny	56	2nd	35	1st	53·0	42·3	47·5	+ 6·2	39	0	7	0·94	+ 0·36	*	*	*	*	* *
	a Waterford	57	2nd	38	1st, 2nd	52·9	42·6	47·6	+ 5·6	39	0	5	0·94	+ 0·20	23·3	+ 1·3	32	+ 2	Phœnix Park.
	a Birr Castle	55	27th	36	1st	51·9	40·0	45·8	+ 5·0	35	6	6	0·85	+ 0·33	*	*	*	*	* *
— b, West.	*a* Foynes	56	3rd	39	1st	52·9	43·8	48·2	+ 5·4	43	0	5	1·11	+ 0·42	13·0	- 7·0	18	- 9	Birr Castle.
	a Cahir .. .. M	57	2nd	36	1st	53·5	42·2	47·7	+ 5·9	40	0	7	1·05	—	*	*	*	*	* *
	a Killarney	58	27th	38	1st	54·5	43·9	49·0	+ 6·2	49	0	7	0·90	- 0·26	15·6	- 6·4	21	- 9	Valencia.
	a Valencia	55	3rd	41	1st	52·7	45·3	48·9	+ 4·5	48	0	6	1·38	+ 0·27	24·3	—	33	—	Ballinacurra.
	a Roche's Point ..	57	2nd	40	1st	51·9	44·0	47·8	+ 4·4	41	0	7	0·92	+ 0·17	22·4	- 3·3	30	- 4	Scilly.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	53	2nd, 3rd	42	1st	51·7	44·6	48·1	+ 2·9	43	0	5	0·84	+ 0·24	23·4	- 3·9	31	- 5	St. Heliers.
	a Jersey, St. Aubins ..	53	3rd	43	27th	51·4	44·9	48·1	+ 4·6	43	0	5	0·50	- 0·03	20·4	- 6·3	27	- 8	Guernsey.
	a Guernsey	53	1st	43	1st	51·1	44·8	47·9	+ 3·9	41	0	7	0·75	+ 0·13					

Additional Sunshine Totals for the week: *Brighton, 23·6 hrs.* (+ *0·1 hrs.*), *22* % (*0* %); *Bournemouth, 17·2 hrs., 23* %; *Bognor,* *hrs.*, %

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	36·6	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·0
	Crathes	4	19	38·1	38·9
	Balmoral	4	19	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	1	24	38·9	—
2.	Cockle Park	2	22	40·1	40·3
	Durham	1	23	—	—
	York	—	—	41·7	41·9
	Hull	1	25	41·9	42·0
	Lincoln	—	—	40·6	40·9
	Rauceby	2	27	43·0	42·7
3.	Norwich	1	23	—	—
	Yarmouth	—	—	42·0	43·0
	Lowestoft	1	29	42·4	42·1
	Cambridge	2	27	42·8	42·9
	Clacton-on-Sea ..	3	26	42·8	44·1
	Southend	2	28	43·4	—
	Tottenham	0	34	—	43·5
4.	Harrogate	1	27	41·1	41·2
	Huddersfield ..	1	30	41·5	41·1
	Buxton	2	27	40·6	41·1
	Sheffield	1	29	41·5	41·2
	Nottingham.. ..	1	28	42·9	40·8
	Birmingham.. ..	0	31	42·9	43·8
	Oxford	0	31	—	—
	Hereford	0	31	—	—
	Cirencester	4	29	42·9	42·7
	Bath	—	—	—	—
5.	Margate	—	—	43·0	42·7
	Greenwich	1	29	—	—
	Westminster ..	0	31	—	—
	Kew	1	29	43·6	43·4
	Canterbury	1	30	42·9	43·8
	Tunbridge Wells ..	3	25	42·0	—
	Wisley	0	31	43·3	42·9
	Worthing	0	32	43·9	43·7
	Portsmouth	0	35	45·0	45·0
6.	Glasgow	1	28	—	—
	Rothesay	—	—	—	43·0
	Colmonell	1	29	—	—
6.	Dumfries	3	24	41·6	41·9
	Douglas	0	31	—	—
7.	Aspatria	1	29	42·3	42·9
	Newton Rigg ..	3	23	41·4	41·1
	Burnley	0	33	41·7	41·1
	Southport	1	27	43·4	42·2
	Manchester City ..	0	35	42·8	43·1
	Bettws-y-Coed ..	0	34	43·9	44·0
8.	Llangammarch Wells	3	22	43·4	43·4
	Cardiff	0	32	43·9	43·2
	Clifton	0	34	—	—
	Plymouth	0	34	46·5	—
9.	Armagh	0	32	43·6	44·0
	Markree	0	31	44·9	44·8
10.	Dublin, Trin. Coll. ..	0	33	45·0	44·7
11.	Guernsey, Brooklyn	0	35	46·4	45·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	41	41·7
	Kirkwall	42	39	41·0
	Wick	44	33	43·3
SCOTLAND, E.	Cromarty	38	36	36·9
	Pennan Bay	41	39	39·7
	Aberdeen, Cove Bay ..	42	41	41·5
ENGLAND, N.E.	Burnmouth, Berwick ..	39	38	38·3
	Scarborough	48	41	43·7
ENGLAND, E.	Shipwash Lightship ..	44	41	42·1
	Margate‡	44	42	43·0
ENGLAND, S.E.	Eastbourne‡	46	44	44·9
SCOTLAND, W.	Lamlash	45	44	44·2
	Ballantrae	44	42	43·0
	Port Erin	46	44	45·1
ENGLAND, N.W.	Newquay	47	45	45·7
	Scilly	49	47	48·1
ENGLAND, S.W.	Plymouth‡	45	45	44·9
	Salcombe	46	45	46·0
	Sheephaven	45	45	45·0
IRELAND, N.W.	Teelin	49	44	46·4
	Cleggan	46	44	45·0
IRELAND, S.W.	Seafield	51	43	46·7
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it i so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

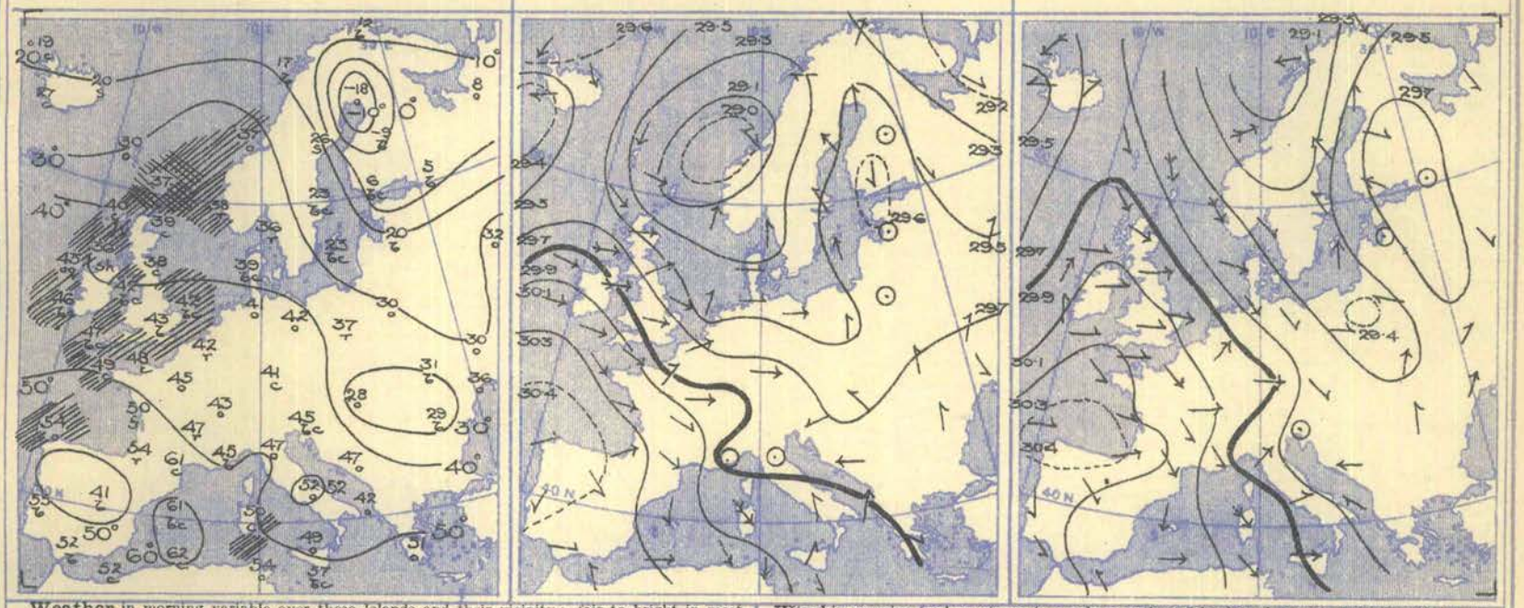
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 26th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning variable over these Islands and their vicinity; fair to bright in most places, but sleet and hail showers falling in the north of Scotland and Ireland, rain in some parts of France and the Netherlands, and rain or snow in some German, Danish, and Swedish localities. Bright in Finland, overcast in Russia, and fair or fine over the major portion of the Mediterranean. Rain later in the west and north of these Islands, heavy in Ireland. Considerable or heavy rain experienced in various parts of central Europe and at Trieste, and heavy snow in the west of Norway.

Temperature risen over the Mediterranean and Scandinavia, fallen generally elsewhere. Morning readings ranging from 64° at Barcelona, and 62° at Algiers to a little above 40° in a large area in central Europe and these Islands, and to much below 32° in the north and north-east of Europe. Lowest readings, –13° at Uleaborg and –18° at Haparanda. Rising later to about 50° at several of our own stations, in the north of France, and in a few parts of central Europe, to above 60° in the south of France and at several Italian stations, and to 70° or rather higher in Algeria and the southern half of Spain, as well as at Barcelona.

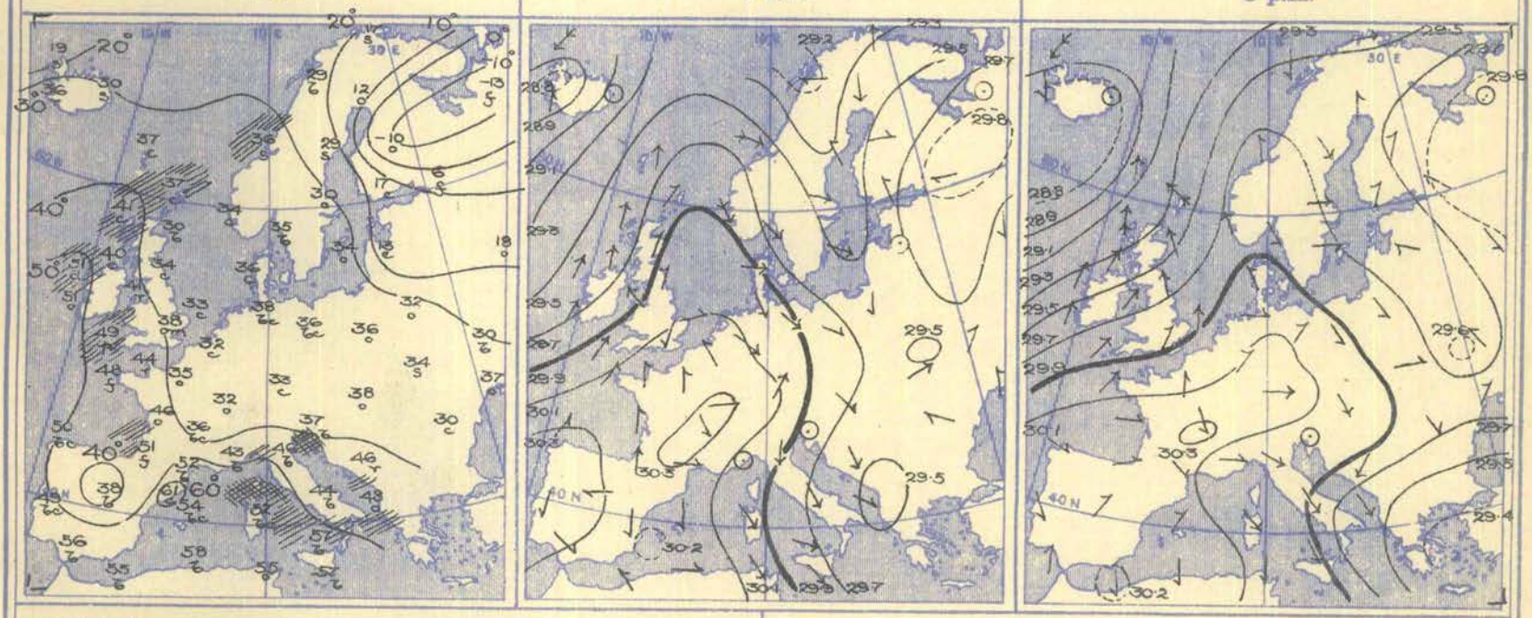
Wind in morning fresh or strong to a gale over these Islands and France, from between West and North-West; drawing into the Southward over the Baltic and Scandinavia and blowing strongly in places. A gale from North-West prevailing in the south of Sardinia and some fresh or strong breezes from that point on some other parts of the Mediterranean. Decreasing in force over this country generally, and backing to the Southward in Ireland, but continuing strong or fresh in most places and blowing a strong gale from North-West in Shetland. Veering to West or North-West and blowing a gale on the Norwegian coast. Wind increasing in force from North-West on the south coast of France.

Barometer in morning above 30·4 in. in an anticyclonic system between the Peninsula and the Azores; below 29·0 in. in a depression centred off the west of Norway, and relatively low over the White Sea and to the south-west of Iceland. Main depression travelling north-eastward during day, and a secondary over Germany becoming more marked. Another disturbance approaching Ireland and the west of Scotland, and pressure beginning to decrease again in these Islands by evening or at night.

Monday, 27th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning overcast, with rain in places, in these Islands and much cloud general over the northern half of the Continent, with snow at Cassel and Cracow and at some places further north. Mostly fair over the southern regions, but rainy at Pesaro and foggy along the west coast of France. Rain later throughout the United Kingdom and the Netherlands and in a few localities elsewhere, and a little rain or snow in Russia and Scandinavia.

Temperature risen in Ireland, Iceland, and Sweden, fallen in most other regions. Morning readings ranging from 61° at Barcelona, 58° at Algiers, and about 50° in Ireland to 30° at Aberdeen and below that value in the north and north-east of Europe; as low as –10° at Kuopio and –13° at Archangel. Thermometer touching or rising slightly above 50° during day in several parts of this country, and exceeding 60° at various places in the south of Europe. Maxima slightly above 70° in a few localities in Spain and on the coast of Algeria. Severe frost continuing all day in northern Europe.

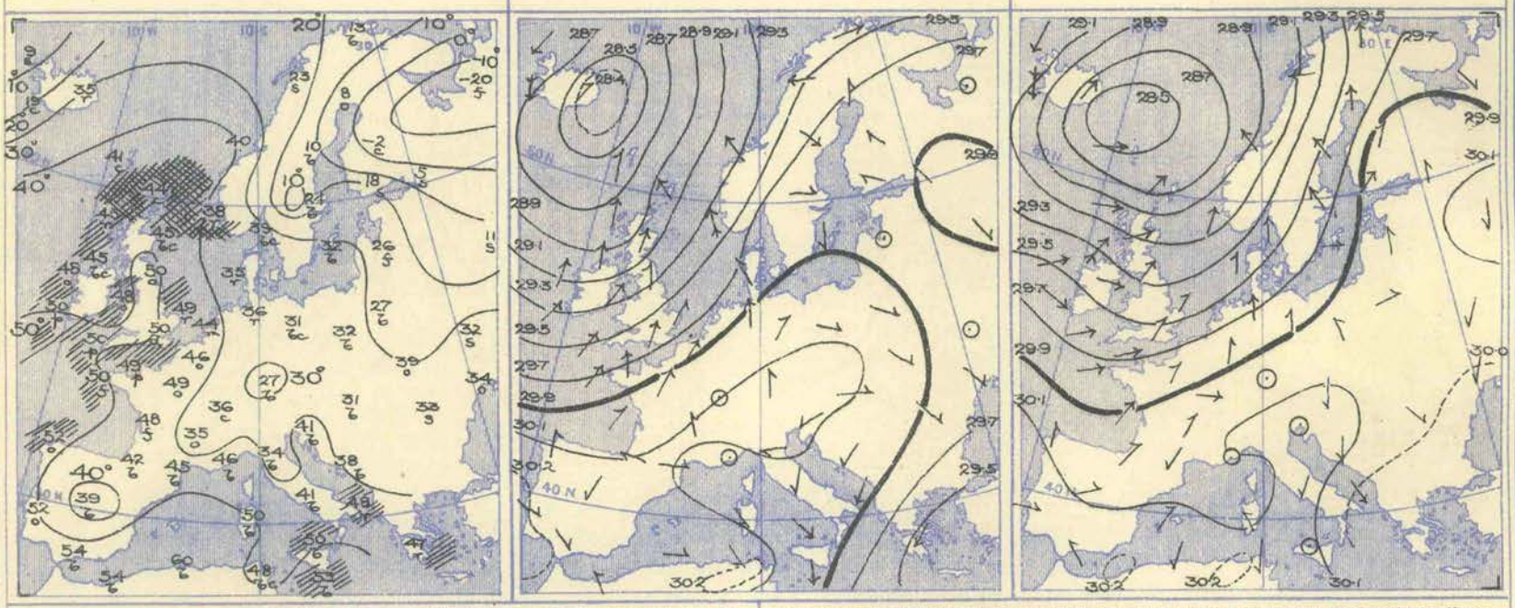
Wind in morning strong to a gale from the North-Eastward in the west of Iceland, fresh or strong from the Southward in the west of these Islands; strong to a gale from the North-Westward in the west of Norway, and light to strong from the Southward over the Gulf of Bothnia. A moderate to strong or high North-Westerly to Northerly current prevailing over the Mediterranean region. Backing and increasing in force generally over England later, and blowing a strong gale in Shetland. Increasing somewhat on some shores of the Mediterranean

Barometer in morning above 30·2 in. in an anticyclone extending from the east of France to some distance beyond the Spanish Peninsula. Below 29·8 in. in a depression over northern Russia, below 29·5 in. in another centred over the southern portion of the Adriatic, and below 28·8 in. in a large and deep system having its minimum over Iceland. Icelandic depression extending over these Islands during day, and barometer falling about 0·5 in. in the Hebrides.

Tuesday, 28th February, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning overcast in these Islands and their immediate vicinity, with rain in several places; snow falling at several stations in the north of the Continent, and also at Kieff and Hermanstadt, and rain at Athens and Brindisi. Fair to fine over a large area in central Europe and on most shores of the Mediterranean. Rain later in the whole of these Islands and at most places over the northern half of the Continent, and also in the north of Spain. Aurora observed at some Scottish stations at night.

Temperature risen over Great Britain, northern France, and the west of Norway, fallen in Ireland and the north-east of the Continent. Morning readings ranging from 60° at Algiers and about 50° in many parts of the United Kingdom to below 32° in patches in central Europe, and to many degrees lower in northern and north-eastern Europe. Thermometer standing as low as -20° at Archangel. Maxima during day between 50° and 55° over a large portion of this country, France, and the Netherlands, above 60° in the extreme south of France, and about 70° at Madrid and in the south of Spain, as well as in Algeria.

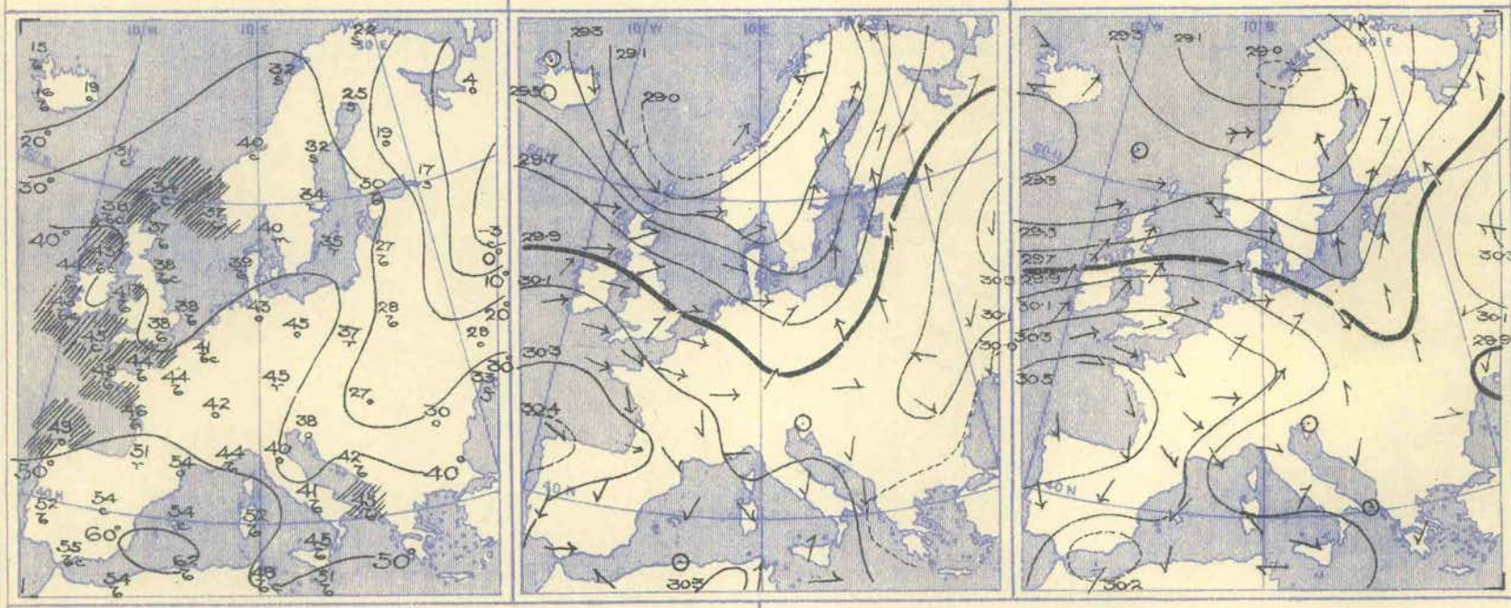
Wind in morning fresh to strong or high from the Southward and South-Westward over these Islands and the North Sea, with a gale at Skudesnaes; drawing into the Northward and blowing a gale in Iceland. A strong breeze from the Northward prevailing at Athens, Brindisi, and Malta. Veering towards West or North-West in these Islands later and increasing in force on the west and north-west coasts. Increasing in strength from the South-Eastward in Scandinavia, and continuing to blow a gale from the Northward in Iceland.

Barometer in morning above 30·2 in. between Portugal and the Azores and relatively high in a irregular shaped area extending thence to central Europe. Below 29·5 in. in a depression over the extreme south-east of Europe, and below 28·4 ins. in a large and deep system having its minimum to the eastward of Iceland. Not much change occurring later in the general distribution later, but northern depression moving slowly eastward, and some small, secondary disturbances travelling in a similar direction over these Islands.

Wednesday, 1st March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning generally fair to fine over these Islands and their neighbourhood, but showery in the Hebrides. Rainy at some stations in the south of France, Germany, and the Baltic, and snow falling at St. Petersburg and in northern Scandinavia. Fine at nearly all places on the shores of the Mediterranean. Heavy rain in the south-east of Scotland later and smaller quantities over a large portion of the United Kingdom. A considerable amount of precipitation experienced over the northern half of the Continent.

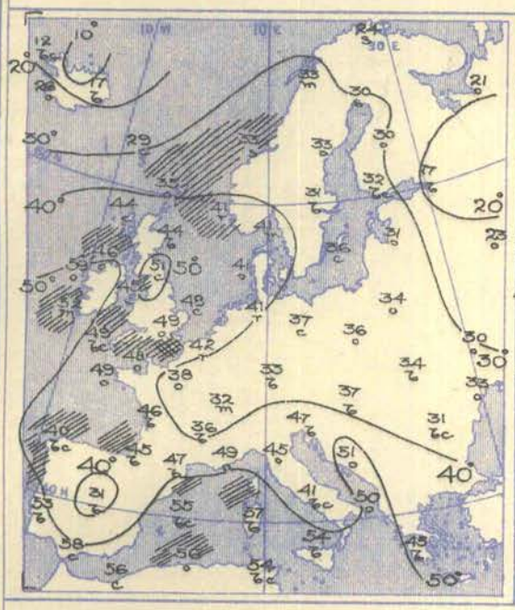
Temperature risen at most stations in the north and south of our area, fallen over the intermediate regions. Readings in morning 3° below zero at Moscow and below 32° over a large area in the north and east of Europe; below 40° in most parts of Great Britain. Above 50° at a few places in the south of the Continent, and as high as 62° at Algiers. Rising to above 50° later over a considerable portion of the United Kingdom and France, to above 60° at various places in the extreme south of the Continent, and to 75° on the coast of Algeria.

Wind in morning moderate to strong from the Westward over the greater part of these Islands, and blowing a strong gale from North-West in Shetland; drawing into South and blowing strongly in Scandinavia, and increasing to a gale from South-East at Vardö. Light airs from various quarters prevailing over the Mediterranean. Veering and increasing to a gale later on the coast of Norway, and backing towards South-West or South over these Islands. Southerly current decreasing in force over Sweden.

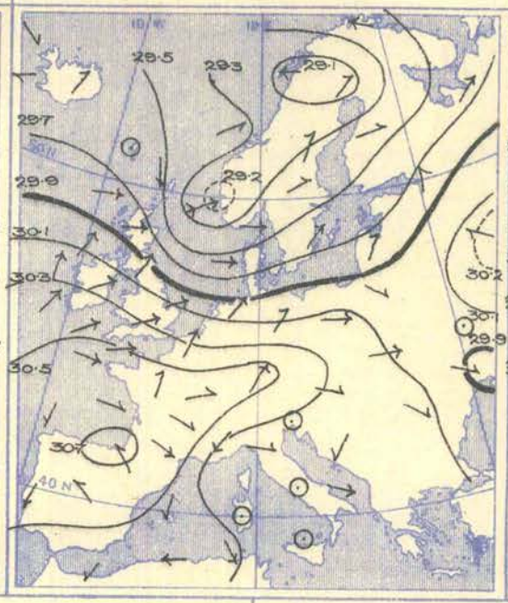
Barometer in morning ranging from above 30·4 in. between Spain and the Azores, and above 30·3 in. in central Russia to below 29·0 in. in a large depression centred between Norway and Iceland. Latter moving eastward during day, but another disturbance appearing to the south of Iceland and beginning to affect the barometer in the west and north-west of the United Kingdom. Scarcely any change occurring within the high pressure regions, but a secondary disturbance becoming more marked over the Baltic and Germany.

Thursday, 2nd March, 1911.

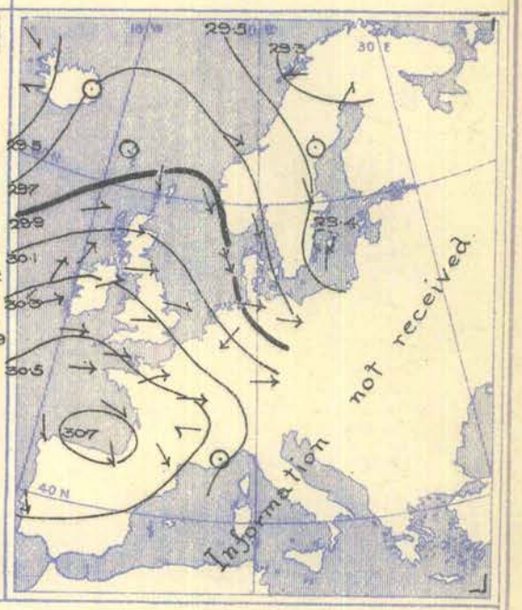
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over nearly the whole of the United Kingdom, but rainy at some stations on the nearer part of the Continent, snow in a large area over Scandinavia and in the south of Russia. Fair to fine over the major portion of southern Europe and the Mediterranean, but rain falling at Leghorn. Rain falling during day in most parts of the British Islands, but measurements not large, and snow or rain in many parts of the Continent.

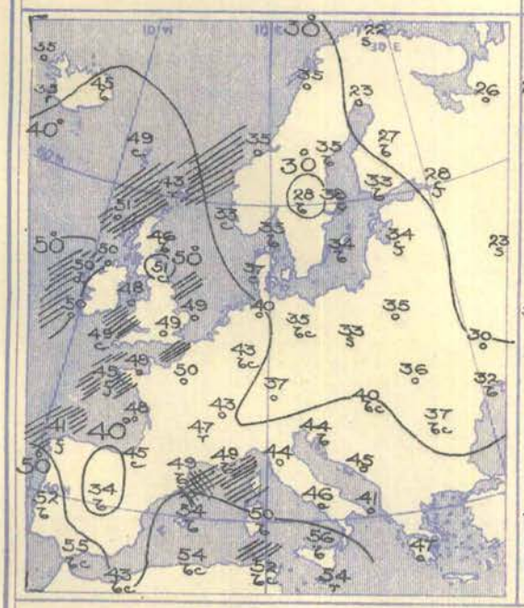
Temperature fallen in most Continental regions, risen in these Islands. Morning readings ranging from below 20° at St. Petersburg and below 32° in the north-east and east of our area generally to about 50° in England, Ireland, and a large portion of the Mediterranean region, and to 58° at Gibraltar and Oran. Subsequently rising to nearly 60° in many parts of England and Ireland.

Wind in morning cyclonic except in central Russia and over the Bay of Biscay region. Westerly current moderate to strong over these Islands and the North Sea, and strong to a gale on the south-west coast of Norway. A strong Easterly breeze prevailing at Algiers, but little force in the south generally, and direction somewhat variable. Veering to the Northward later in Scandinavia and Denmark, but remaining strong to a gale in force; not much change our Islands.

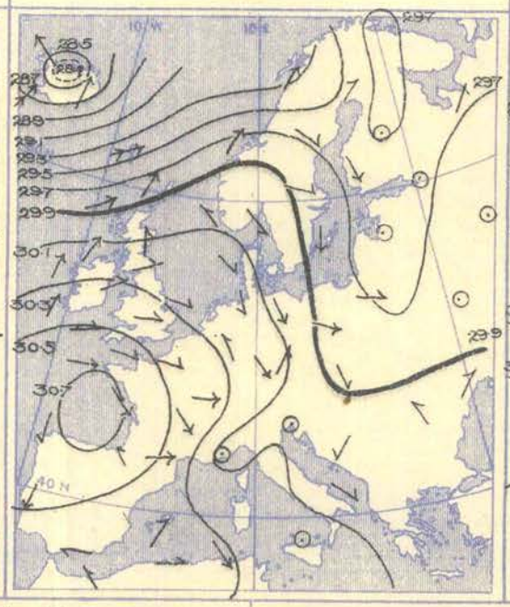
Barometer in morning above 30·7 in. in the south-west of France and the adjacent part of Spain and above 30·2 in. in central Russia; below 29·1 in. in a depression over the north of Scandinavia, nearly as low in a small minimum near Skudesnaes, and relatively low in shallower systems over Italy and southern Russia. Rising later over North-Western Europe generally, and depressions over Scandinavia moving eastwards.

Friday, 3rd March, 1911.

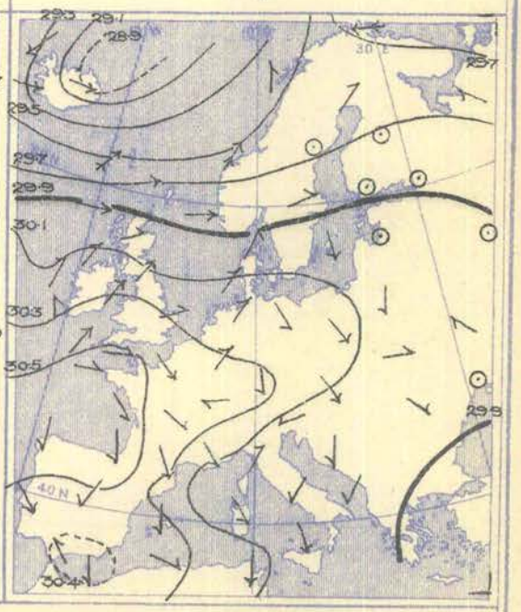
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy to dull at nearly all stations in these Islands, Scandinavia, and Russia, with rain in Ireland and Shetland, and snow at Vardö and St. Petersburg. Fair to fine generally in the southern half of our area, but rainy at some French stations and also at Malta, and snow falling at some places in central Europe. Rain experienced later over the major portion of the United Kingdom, and larger amounts in Switzerland and the east of France.

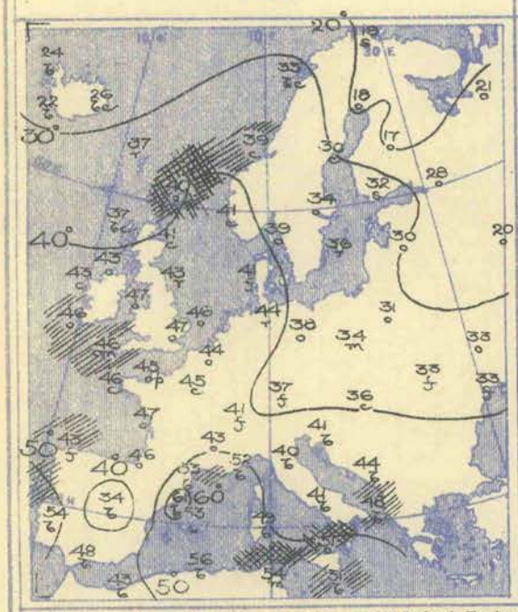
Temperature changed rather irregularly. Morning readings ranging from below 32° over a large area in Russia and Scandinavia to about 50° at many stations in these Islands and northern France, and to about 55° at Gibraltar and Palermo. Thermometer rising to 55° or higher in various parts of this country, France, and Italy, to 60° in Algeria and the Mediterranean Islands, and to 70° at Barcelona. Maxima below 45° at several places in central Europe.

Wind in morning light to fresh from West and South-West over these Islands, and strong to a gale between Scotland and Iceland; drawing into North-West and North in Scandinavia and over the Baltic, and blowing strongly in a few localities. A gale from North-East prevailing at Vardö. Backing to the Southward later in Ireland, and to the South-Westward in England. Gale continuing in the north, and wind increasing to a gale at Christiansund. Northerly current remaining strong over the Mediterranean, and blowing a gale at Cape de Garde.

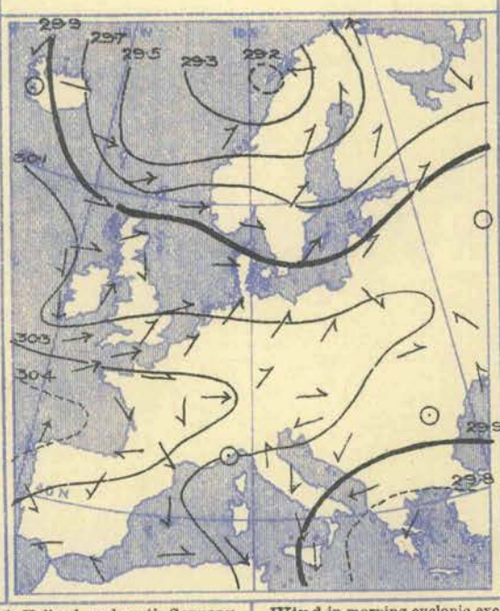
Barometer in morning above 30·6 in. in an anticyclonic system over the Bay of Biscay, relatively low over the Gulf of Genoa and the south-east of Europe, and below 28·4 in. in a very large depression centred over Iceland. Little change occurring during day in the general distribution, but northern depression travelling in an easterly direction, and another disturbance approaching the west of the United Kingdom.

Saturday, 4th March, 1911.

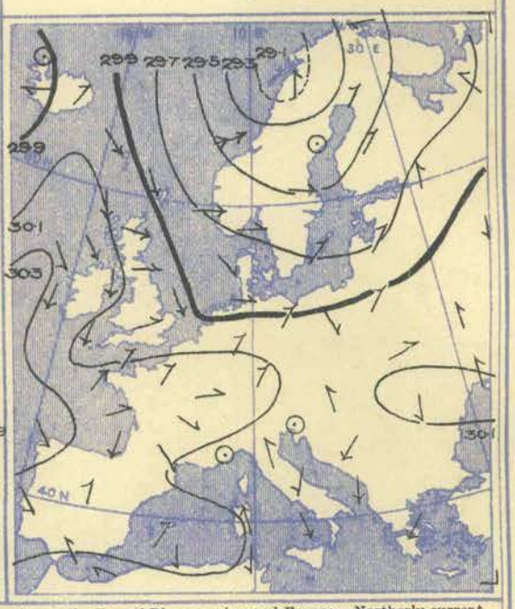
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several parts of Ireland, England, Holland, and north Germany, and very cloudy or overcast in most parts of central and western Europe, as well as in Russia. Fair to very fine over nearly the whole of the Mediterranean, but rain falling at Athens. Rain experienced later in almost all parts of the United Kingdom and the nearer regions of the Continent, as well as in Germany and Norway; amount not large generally, but an in h measured at Christiansund.

Temperature fallen over the United Kingdom and its neighbourhood. Readings in morning ranging from 61° at Barcelona, 56° at Algiers, and above 50° at some other southern stations to about 45° over a large area in these Islands and France, to about 32° in Poland and eastern Europe, and to below 20° in the extreme north-east and north. Maxima during day about 50° in various parts of this country and the north of France, above 55° in Italy, and above 60° on the Riviera and on the coast of Algeria. Thermometer remaining below 45° in some German and Austrian localities.

Wind in morning cyclonic except over the Bay of Biscay region and France. Northerly current fresh in the south-west of Ireland, and that from West fresh in various parts of Great Britain. Fresh to strong or high winds from between North-West and North-East prevalent over the south of our area. Veering towards the North later in these Islands, and blowing a high wind at Scilly. A strong gale from West-South-West setting in on the west coast of Norway.

Barometer in morning above 30·3 ins. in an anticyclonic system extending from the Azores across France to central Europe, and relatively high as far east as central Russia; below 29·2 ins. in a depression having its centre over the north-west of Norway, and below 29·8 in. in the south-east of our area. A secondary disturbance shown over Ireland and England. Latter undergoing some modification in form and moving in an easterly direction during day. Pressure giving way over the south of this country and in France and Germany, but recovering in Ireland and Scotland. A fresh fall beginning in Iceland by evening.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	March 1st, 12.20 p.m. to 12.50 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	281° 70% 280°, 9	70% 280°, 14	274·5° 70% 290°, 16					500	
2	March 1st, 2.20 p.m. to 3.0 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	282° 60% 270°, 9	281° 60% 270°, 12	275·5° 75% 270°, 13	272° 90% 270°, 14				1,000	Clouds not reached.
3	March 2nd, 3.20 p.m. to 4.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	285° 70% 280°, 9	284·5° 70% 280°, 12	282° 85% 290°, 14	278° 100% 295°, 16				276° 100% 300°, 18 1,200	Clouds at 1,000 m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	1	1	1
Area of Surface (sq. metres) ..	4	4	4
Capacity of Balloon (cub. metres)	—	—	—
Length of Wire (metres)	500	1,200	1,300

South Kensington, London, S.W. *March 8th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

81

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 10. TENTH WEEK, SUNDAY, MARCH 5TH, TO SATURDAY, MARCH 11TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally unsettled, but rain was less frequent in the southern and midland districts of England than elsewhere, and fair or bright intervals were experienced in all parts of the Kingdom.

Temperature was a trifle below the average in England S.E. and S.W., the English Channel and Ireland S., slightly above it elsewhere. The highest of the maxima were recorded on somewhat variable dates, but mostly about the middle of the week, the values ranging from 57° in Ireland S. to between 52° and 50° in all other districts. The lowest of the minima, which also occurred on irregular dates, ranged from 24° in Scotland E., to 29° in England N.W., and to 33° in the English Channel. The lowest readings on the grass were 13° at Llangammarch Wells, 20° at Kew, Tunbridge Wells and Newton Rigg, and 21° at Balmoral.

Mean Temperature of the Sea. On the coast generally the temperature of the sea differed little from that prevailing during the corresponding week of last year. At Plymouth, however, it was 3°·7 lower. The values varied between 47° at Scilly and Newquay and 39° at Burnmouth and Cromarty.

Rainfall exceeded the average in Scotland N., England S.W., the English Channel and Ireland S. and scarcely differed from it in England S.E. and E., while it was generally less in the north-eastern and north-western parts of the Kingdom. Falls of nearly an inch were recorded at some places in the south-west on the 10th, and at Plymouth the measurement slightly exceeded that figure.

Bright Sunshine was rather more than the normal, except in the central, eastern and south-eastern parts of England and English Channel. The percentage of the possible duration ranged from 46 in Scotland E., 38 in Scotland N. and Ireland N. to 24 in the Midland Counties.

Barometer and Wind. While large and deep cyclonic systems moved in an Easterly or North-Easterly direction over the Icelandic region some of their secondaries, mostly "V-shaped," passed across these Islands from the Atlantic, causing the wind to vary frequently both in direction and strength. As a rule the gradient in the rear of the systems was steeper than that in their front, so that the wind was more often strong to a gale from the North-Westward than from the Southward or South-Westward. The disturbance that arrived as a "V-shaped" system on Friday subsequently developed into a separate minimum and moved away in a south-easterly and southerly direction across the west of France.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 84.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Heavy	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Moderate	Moderate	Moderate	Scanty	Abundant	Abundant	Moderate	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 1 week from Mar. 5th, 1911.	Warmth ...	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 1	**0** * 0
	Rainfall ...	**1** * 0	**0** * 0	**0** * 1	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**1** * 0	**0** * 0	**1** * 0	**1** * 0
	Sunshine ...	**1** * 0	**1** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 1	**1** * 0	**1** * 0	**0** * 0	**1** * 0	**1** * 0	**0** * 0

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

9420/450 Wy. & S., Ltd. 3—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TENTH WEEK—March 5th to March 11th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	25	44·7	33·0	38·7	+ 0·6	8	+ 1	32	− 3	6	+ 1	1·53	+0·50	29	+ 11	38	+14
Eastern																		
1. SCOTLAND, EAST	52	24	46·0	32·4	39·0	+ 1·0	11	+ 1	35	− 3	5	+ 1	0·37	−0·17	35	+ 14	46	+18
2. ENGLAND, N.E.	50	28	46·6	34·2	40·2	+ 0·7	13	− 1	29	− 2	4	0	0·29	−0·13	27	+ 3	35	+ 4
3. ENGLAND, EAST	51	28	46·7	33·8	40·1	+ 0·5	13	− 4	31	− 2	5	+ 2	0·35	+0·01	20	− 4	25	− 6
4. MIDLAND COUNTIES	51	27	46·4	33·7	39·9	+ 0·2	12	− 6	31	− 2	4	+ 1	0·39	−0·03	19	− 2	24	− 3
5. ENGLAND, S.E.	50	26	46·5	34·4	40·3	− 0·5	13	− 6	29	+ 3	4	+ 1	0·44	−0·01	19	− 4	25	− 6
Western																		
6. SCOTLAND, WEST	51	26	46·5	34·6	40·4	+ 0·8	13	+ 2	28	− 1	5	+ 1	0·56	−0·27	28	+ 7	36	+ 9
7. ENGLAND, N.W.	50	29	46·2	36·2	41·1	+ 1·0	12	− 1	23	− 3	5	+ 1	0·43	−0·13	26	+ 5	33	+ 6
8 ENGLAND, S.W.	50	25	46·3	35·8	40·9	− 0·6	12	− 8	24	+ 2	5	+ 1	1·00	+0·33	26	+ 2	34	+ 3
9. IRELAND, NORTH	52	26	47·5	35·3	41·2	+ 0·3	15	− 2	26	+ 2	6	+ 2	0·51	−0·10	29	+ 9	38	+11
10. IRELAND, SOUTH	57	26	48·9	35·2	41·9	− 0·7	19	− 4	28	+ 9	6	+ 2	1·00	+0·31	29	+ 4	37	+ 6
11. ENGLISH CHANNEL	52	33	48·0	38·1	42·9	− 1·3	23	− 2	11	+ 2	5	+ 1	0·93	+0·35	26	− 4	33	− 5

THE SEASON (Spring).—Aggregates, &c., for the Period of 1 Week, March 5th, to March 11th, 1911.

0. SCOTLAND, NORTH	50	25	*	*	*	*	8	+ 1	32	− 3	6	+ 1	1·53	+0·50	29	+11	38	+14
Eastern																		
1. SCOTLAND, EAST	52	24	*	*	*	*	11	+ 1	35	− 3	5	+ 1	0·37	−0·17	35	+14	46	+18
2. ENGLAND, N.E.	50	28	*	*	*	*	13	− 1	29	− 2	4	0	0·29	−0·13	27	+ 3	35	+ 4
3. ENGLAND, EAST	51	28	*	*	*	*	13	− 4	31	− 2	5	+ 2	0·35	+0·01	20	− 4	25	− 6
4. MIDLAND COUNTIES.. ..	51	27	*	*	*	*	12	− 6	31	− 2	4	+ 1	0·39	−0·03	19	− 2	24	− 3
5. ENGLAND, S.E.	50	26	*	*	*	*	13	− 6	29	+ 3	4	+ 1	0·44	−0·01	19	− 4	25	− 6
Western																		
6. SCOTLAND, WEST	51	26	*	*	*	*	13	+ 2	28	− 1	5	+ 1	0·56	−0·27	28	+ 7	36	+ 9
7. ENGLAND, N.W.	50	29	*	*	*	*	12	− 1	23	− 3	5	+ 1	0·43	−0·13	26	+ 5	33	+ 6
8. ENGLAND, S.W.	50	25	*	*	*	*	12	− 8	24	+ 2	5	+ 1	1·00	+0·33	26	+ 2	34	+ 3
9. IRELAND, NORTH	52	26	*	*	*	*	15	− 2	26	+ 2	6	+ 2	0·51	−0·10	29	+ 9	38	+11
10. IRELAND, SOUTH	57	26	*	*	*	*	19	− 4	28	+ 9	6	+ 2	1·00	+0·31	29	+ 4	37	+ 6
11. ENGLISH CHANNEL	52	33	*	*	*	*	23	− 2	11	+ 2	5	+ 1	0·93	+0·35	26	− 4	33	− 5

THE YEAR.—Aggregates, &c., for the Period of 10 Weeks, January 1st to March 11th, 1911.

0. SCOTLAND, NORTH	55	14	*	*	*	*	97	+ 30	251	−114	52	+ 1	13·94	+1·95	115	+ 9	20	+ 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	96	+ 18	319	− 96	39	0	4·70	−0·83	178	+ 33	30	+ 5
2. ENGLAND, N.E.	58	19	*	*	*	*	137	+ 43	250	− 82	32	− 5	2·80	−1·01	161	+ 11	26	+ 2
3. ENGLAND, EAST	59	16	*	*	*	*	125	+ 18	284	− 88	41	+ 4	3·61	−0·10	167	+ 3	26	+ 1
4. MIDLAND COUNTIES.. ..	60	14	*	*	*	*	134	+ 12	275	− 94	31	− 5	2·96	−1·64	148	+ 7	23	+ 1
5. ENGLAND, S.E.	58	16	*	*	*	*	116	− 21	256	− 29	33	− 2	3·56	−1·34	171	+ 14	26	+ 2
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	136	+ 36	210	− 81	45	+ 1	9·95	+0·27	138	+ 11	22	+ 2
7. ENGLAND, N.W.	58	17	*	*	*	*	123	+ 16	207	− 70	37	− 3	5·72	−0·51	152	+ 18	24	+ 3
8. ENGLAND, S.W.	56	13	*	*	*	*	125	− 46	197	− 24	38	− 2	5·97	−1·70	168	+ 9	26	+ 1
9. IRELAND, NORTH	58	18	*	*	*	*	168	+ 26	194	− 47	43	− 3	5·91	−1·23	161	+ 23	26	+ 4
10. IRELAND, SOUTH	59	18	*	*	*	*	208	− 1	199	+ 15	43	+ 1	5·94	−2·30	168	+ 8	26	+ 1
11. ENGLISH CHANNEL	53	29	*	*	*	*	211	− 33	92	+ 4	38	− 7	4·40	−2·09	184	− 14	28	− 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*45*	*7th*	*32*	*10th, 11th*	*42·2*	*34·1*	*38·0*	—	*1*	*27*	*7*	*1·48*	—	*17·8*	—	*24*	—	*Baltasound.*
	a Sumburgh Head ..	49	6th	32	11th	46·6	34·9	40·6	+ 2·2	13	27	4	0·97	+ 0·25	33·7	+13·6	45	+18	Deerness.
	a Stornoway	46	5, 8, 9th	32	7th, 11th	44·6	34·3	39·3	+ 0·1	8	28	7	2·09	+ 1·13	25·2	+ 4·8	34	+ 6	Stornoway.
	a *Castlebay, Barra Isd.*	*47*	*10th*	*35*	*7th*	*45·7*	*37·1*	*41·3*	*- 0·5*	*10*	*19*	*7*	*0·75*	—	*27·8*	—	*37*	—	*Castlebay.*
	a Wick	47	8th	28	7th, 8th	44·6	31·0	37·6	- 1·1	7	39	7	0·61	+ 0·11	*	*	*	*	*
	p Strathpeffer.. ..	50	10th	31	7th	45·4	33·5	39·3	+ 1·2	10	31	6	0·94	+ 0·32	33·5	+14·9	44	+20	Strathpeffer.
b, Mainland.	p Glencarron .. S	46	8th, 9th	28	7th	42·5	32·3	37·3	- 0·2	1	34	7	2·27	+ 0·48	*	*	*	*	*
	p Fort Augustus S	48	8th	25	7th	44·4	31·5	37·8	- 0·8	7	37	7	1·24	+ 0·35	22·3	+ 7·1	29	+ 9	Fort Augustus.
	p Fort William S	50	8th	26	7th	45·1	33·4	39·1	- 0·7	9	31	7	2·57	+ 0·95	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	50	8th, 10th	30	7th	47·4	33·4	40·2	+ 0·7	15	32	3	0·18	- 0·34	*40·5*	—	*53*	—	*Gordon Castle.*
	a Nairn	49	8th	29	7th, 8th	45·9	31·7	38·6	- 0·2	11	37	7	0·41	- 0·02	38·1	—	50	—	Nairn.
	a Aberdeen	52	8th	33	11th	47·1	34·9	40·8	+ 1·6	14	27	5	0·18	- 0·34	37·0	+13·4	49	+18	Aberdeen.
	a Balmoral .. S	48	10th, 11th	24	7th	46·4	29·4	37·7	+ 2·7	12	46	2	0·13	- 0·52	38·1	—	50	—	Crathes S.
	p Crieff .. .. S	51	8th	30	5th	46·6	32·6	39·4	+ 0·3	13	35	6	0·35	- 0·37	33·5	—	44	—	Balruddery.
	a Leith	50	8th, 10th	35	5, 6, 7, 8, 11	47·3	35·9	41·4	+ 0·9	15	24	6	0·26	- 0·09	*	*	*	*	*
	p West Linton.. S	48	8th	27	11th	43·3	29·4	36·1	- 1·2	4	43	6	0·83	—	*29·1*	—	*38*	—	*West Linton.*
	p Marchmont .. S	49	5th	29	5th	44·0	32·1	37·9	- 0·1	6	35	6	0·61	+ 0·06	29·3	+ 7·3	39	+10	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	49	8th, 10th	30	8th	46·6	33·9	40·1	+ 0·7	13	31	6	0·61	+ 0·08	35·7	—	46	—	Cockle Park.
	a Shields	49	10th	32	5th	47·0	33·9	40·3	+ 0·3	14	31	4	0·34	- 0·04	*22·8*	*+ 5·3*	*30*	+ 7	*Newcastle.*
	p Durham	48	9th	30	7th, 8th	45·9	32·3	38·9	+ 0·1	11	35	3	0·28	- 0·10	27·2	+ 4·8	35	+ 6	Durham.
	p Rounton .. M	49	11th	28	5th	46·2	32·0	38·9	+ 0·1	12	37	6	0·42	+ 0·02	*	*	*	*	*
	p Scarborough.. M	50	9th, 11th	34	10th	46·9	36·7	41·7	+ 1·6	14	21	3	0·23	- 0·19	23·3	—	30	—	Scarborough.
	p York	50	9th	31	5th	47·1	34·6	40·7	+ 0·5	14	28	5	0·18	- 0·18	24·2	+ 4·2	31	+ 5	York.
b, South.	a Spurn Head	48	11th	34	10th	45·6	36·0	40·7	+ 0·6	10	23	4	0·19	- 0·11	*	*	*	*	*
	a Lincoln	50	7th, 11th	31	5th, 10th	47·4	33·9	40·5	+ 0·2	15	31	3	0·18	- 0·17	28·4	—	37	—	Skegness.
	a Fulbeck	50	7th	30	5th	46·6	34·4	40·3	+ 0·1	13	28	4	0·21	- 0·15	23·9	—	31	—	Rauceby.
															20·9	—	*27*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	49	10th	32	10th	45·9	35·3	40·4	+ 1·2	11	25	6	0·27	—	20·6	—	27	—	Cromer.
	p Hillington .. M	49	11th	29	10th	46·4	32·4	39·2	- 0·6	12	35	5	0·54	+ 0·12	24·2	+ 1·0	31	+ 1	Hillington.
	a Yarmouth	50	10th	31	10th	46·7	34·0	40·2	+ 0·8	13	30	5	0·28	- 0·06	21·3	—	27	—	Yarmouth.
	a Norwich	49	10th	30	6th	46·5	34·5	40·3	+ 0·7	13	28	5	0·35	—	*	*	*	*	*
	p Geldeston	50	10th	30	10th	47·6	32·9	40·0	- 0·1	16	34	6	0·35	+ 0·02	18·1	- 6·9	23	- 9	Geldeston.
	p Cambridge	50	10th	28	8th, 10th	47·6	32·9	40·0	- 0·4	16	34	4	0·23	- 0·09	23·1	- 1·6	30	- 2	Cambridge.
b, South.	a *Felixstowe*	*49*	*10th*	*31*	*8th, 10th*	*46·4*	*33·7*	*39·9*	*- 0·5*	*12*	*31*	*4*	*0·18*	—	*17·0*	—	*22*	—	*Felixstowe.*
	a Clacton-on-Sea ..	51	10th	32	8th, 10th	47·1	33·4	40·1	+ 0·2	14	33	5	0·29	—	17·6	—	23	—	Clacton.
	a Rothamsted ..	47	5, 7, 9, 10, 11	29	8th	46·2	32·7	39·3	- 0·3	12	34	6	0·40	- 0·03	17·4	- 5·7	22	- 7	Rothamsted.
	a *Shoeburyness* ..	*50*	*10th*	*32*	*8th*	*46·6*	*35·1*	*40·7*	*- 0·4*	*13*	*26*	*4*	*0·20*	*- 0·07*	*15·6*	—	*20*	—	*Southend.*
	p Tottenham	49	10th	32	8th	46·4	36·1	41·1	+ 0·3	12	23	4	0·41	—	14·4	—	19	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	48	5th	32	5th, 8th	45·4	34·1	39·6	+ 0·8	10	29	3	0·24	- 0·25	23·4	—	30	—	Harrogate.
	a Bawtry	49	7th, 11th	30	8th	47·0	34·6	40·6	+ 0·3	14	28	2	0·12	- 0·23	25·9	+ 5·9	34	+ 8	Worksop.
	p *Buxton* .. M												—	—	—	—	—	—	*Buxton.*
	a Nottingham ..	50	11th	30	10th	47·1	32·7	39·7	- 0·3	14	35	4	0·29	- 0·06	20·5	—	27	—	Nottingham.
	p Birmingham, Edgbsn	49	11th	32	10th	45·2	35·4	40·2	+ 0·4	9	25	5	0·59	+ 0·18	10·8	—	14	—	Birmingham.
	a Raunds .. M	51	11th	28	8th, 10th	48·1	32·6	40·1	+ 0·3	17	35	4	0·35	—	*	*	*	*	*
	a Oxford	49	11th	31	8th	46·7	34·0	40·2	- 0·6	13	30	4	0·34	0·00	12·6	- 9·8	16	-13	Oxford.
b, West.	a Cheadle .. M	47	5th	30	10th	44·3	33·7	38·8	- 0·1	6	29	2	0·42	- 0·08	27·2	—	35	—	Sheffield.
	p Shrewsbury	50	6th	32	5th, 10th	47·8	35·3	41·4	+ 0·3	16	26	5	0·24	—	*	*	*	*	*
	a Hereford .. M	49	11th	30	5th	46·9	35·0	40·8	- 0·1	14	27	5	0·31	- 0·10	*	*	*	*	*
	a Cirencester	47	11th	27	10th	44·8	31·0	37·7	- 1·7	8	39	4	0·48	+ 0·01	13·8	- 9·7	18	-12	Cirencester.
	a Bath	49	5th, 9th	29	10th	47·3	32·4	39·6	- 1·6	15	36	5	0·88	+ 0·40	17·3	—	22	—	Bath.
															18·2	—	*23*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	50	10th	31	8th, 10th	46·9	34·7	40·6	- 0·3	14	28	4	0·39	+ 0·02	15·7	- 4·5	20	- 6	Kew.
	a Marlborough ..	47	9th, 11th	28	8th, 10th	45·0	32·1	38·4	- 1·2	8	36	5	0·58	+ 0·03	14·6	- 5·9	19	- 8	Marlborough.
	a Margate	50	10th	33	10th	46·3	37·4	41·7	+ 0·9	12	18	4	0·23	- 0·12	17·8	- 6·4	23	- 8	Margate.
	a Wisley, Surrey ..	47	5, 9, 10th	29	8th	46·2	34·6	40·2	- 1·3	12	27	4	0·45	—	16·6	—	21	—	Wisley.
	a Swarraton .. M	48	10th	26	10th	45·8	31·5	38·4	- 1·4	11	38	5	0·83	+ 0·31	21·4	—	27	—	Worthing.
	a Tunbridge Wells M	48	10th	26	8th	45·4	31·9	38·5	- 1·6	10	37	6	0·33	- 0·17	20·9	- 2·6	27	- 3	Tunbridge Wells.
	a Dungeness	49	5th, 10th	29	8th, 10th	47·0	31·4	39·0	- 1·7	14	39	2	0·20	- 0·16	21·8	—	28	—	Littlestone.
	p Hastings	49	10th	33	8th	46·7	36·9	41·7	+ 0·4	13	20	4	0·24	- 0·25	*22·9*	*- 4·1*	*29*	*- 5*	*Hastings.*
	p Southampton ..	50	9th	30	10th	47·4	35·5	41·3	- 1·3	15	25	4	0·72	+ 0·22	20·5	- 4·6	26	- 6	Southampton.
	a Ventnor	50	9th	35	5th, 8th	47·9	38·1	42·9	+ 0·2	23	11	5	0·39	- 0·08	20·0	- 8·0	26	-10	Ventnor.
															23·4	- 2·8	30	- 4	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*50*	*10th*	*31*	*10th*	*47·4*	*35·7*	*41·4*	*+ 0·2*	*15*	*25*	*4*	*0·40*	*+ 0·02*	*10·4*	*- 2·6*	*13*	*- 3*	*Westminster.*
	a *Greenwich*	*51*	*10th*	*29*	*10th*	*47·3*	*34·6*	*40·8*	*- 0·8*	*15*	*29*	*5*	*0·43*	*+ 0·05*	*14·1*	*- 5·3*	*18*	*- 7*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	50	8th	28	7th	45·6	34·3	39·8	+ 0·4	10	28	7	1·13	+ 0·30	*	*	*	*	*
	p Glasgow	48	8th	32	7th	44·8	36·1	40·3	+ 0·7	8	22	5	0·29	- 0·30	20·0	+ 4·0	26	+ 5	Glasgow.
	p Rothesay .. S	50	8th	30	7th, 8th	47·4	35·4	41·2	+ 0·7	15	25	5	0·84	+ 0·05	*	*	*	*	*
	a Kilmarnock .. S	49	8th	26	7th	46·3	32·0	38·9	- 0·9	12	36	5	0·60	—	*28·3*	—	*37*	—	*Kilmarnock.*
	a Colmonell .. S	50	7th, 8th	30	7th	48·3	35·4	41·7	+ 1·3	18	26	4	0·28	- 0·52	*	*	*	*	*
	p Dumfries .. S	48	7th	30	5th, 10th	46·1	33·7	39·7	- 0·3	11	31	6	0·35	- 0·32	*26·7*	—	*35*	—	*Dumfries.*
	p Cally, Gatehouse S	51	7th	30	5th, 11th	47·7	32·8	40·0	+ 0·4	16	34	5	0·56	- 0·34	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	47	5, 8, 9th	35	7th, 11th	46·1	37·2	41·5	+ 0·6	11	19	6	0·45	- 0·24	35·7	+10·4	46	+14	Douglas.
															24·6	—	32	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	49	7th, 9th	32	5th	46·5	34·6	40·4	+ 1·4	13	28	5	0·41	- 0·23	30·2	—	39	—	Aspatria.
	p Newton Rigg ..	47	7th, 9th	29	5th	45·5	32·6	38·9	+ 0·9	10	34	5	0·50	- 0·12	25·8	+ 4·4	34	+ 6	Newton Rigg.
	p Stonyhurst	45	5, 6, 7, 9	31	5th	44·5	34·9	39·6	+ 0·3	7	26	5	0·66	- 0·17	22·7	+ 2·2	30	+ 3	Stonyhurst.
	p Blackpool .. M	48	9th	34	6th	46·2	37·6	41·8	+ 1·6	12	18	4	0·33	- 0·21	32·5	+11·4	42	+15	Blackpool.
	p M'nch'ster, Prestwich	49	11th	31	5th	45·4	34·6	39·8	+ 0·1	10	27	5	0·47	- 0·09	*15·9*	*+ 0·4*	*21*	*+ 1*	*Prestwich.*
	a Liverpool (Bidston)	48	8th	32	6th	46·0	37·4	41·6	+ 0·2	11	18	5	0·36	- 0·07	*21·2*	—	*28*	—	*Liverpool.*
	a Hawarden Bridge ..	50	5th, 8th	34	8th	47·7	37·5	42·5	+ 1·0	22	13	4	0·18	- 0·17	*30·4*	*+ 8·4*	*40*	*+11*	*Southport.*
															29·1	—	*38*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	50	5th	36	8th	47·5	39·4	43·3	+ 1·2	20	7	5	0·33	- 0·17	26·1	+ 3·6	34	+ 5	Llandudno.
	a Holyhead	50	5th	38	8th, 11th	46·9	39·1	42·9	+ 0·8	18	8	4	0·33	- 0·25	26·2	—	34	—	Aberdovey.
	p Bettws-y-Coed ..	49	5th	32	5th, 8th	46·1	34·3	40·0	- 1·6	11	28	5	0·73	—	16·6	—	22	—	Bettws-y-Coed.
															25·1	—	32	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	48	11th	25	5th	45·4	31·7	38·4	- 1·0	10	37	6	0·80	—	19·4	—	25	—	Llangammarch Wells.
	a Pembroke	49	7th	32	5th	46·9	36·9	41·8	- 0·5	14	21	6	0·93	+ 0·38	28·9	+ 3·2	37	+ 4	Pembroke.
	p Cardiff	49	11th	32	5th	47·0	35·0	40·8	- 0·8	14	27	6	0·86	+ 0·16	*19·3*	—	*25*	—	*Cardiff.*
															27·6	*+ 0·3*	*35*	*0*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	49	9th	32	5th	46·7	36·9	41·7	+ 0·4	13	20	4	0·57	+ 0·04	*16·7*	—	*21*	—	*Clifton.*
	a Shaftesbury .. M	48	5th	32	8th	43·8	34·5	39·0	- 0·5	5	26	4	0·66	+ 0·13	*	*	*	*	*
	a Arlington	46	7, 9, 11th	31	5th, 8th	44·9	34·6	39·6	- 0·6	8	27	5	1·54	+ 0·65	33·1	+ 6·6	42	+ 8	Newquay.
	a Cullompton .. M	50	5th, 9th	30	5, 8, 10th	47·3	33·6	40·3	- 1·4	15	32	7	0·90	+ 0·31	15·7	- 8·1	20	-10	Cullompton.
	a Portland Bill ..	50	5th	37	5th	47·4	39·0	43·1	+ 0·7	20	8	3	0·67	—	*20·0*	—	*26*	—	*Weymouth.*
	p Plymouth	49	5th, 11th	32	8th, 10th	47·5	36·0	41·6	- 1·4	15	24	5	1·58	+ 0·96	29·5	+ 3·5	38	+ 5	Plymouth.
	p Falmouth	47	5, 8, 10th	37	5th	46·2	39·4	42·7	- 1·0	16	7	5	1·44	+ 0·67	31·9	+ 3·9	41	+ 5	Falmouth.
															22·0	—	*28*	—	*Salcombe.*
															22·8	*- 4·4*	*29*	*- 6*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	48	8th	36	8th	45·9	38·4	42·0	+ 0·7	11	10	7	0·51	0·00	*	*	*	*	*
	a Blacksod Point ..	49	8th, 10th	33	7th	47·4	37·3	42·2	- 0·8	21	13	6	1·20	+ 0·32	*	*	*	*	*
	p Markree Castle ..	51	8th	27	7th	48·0	33·8	40·7	- 0·2	17	32	6	0·73	0·00	28·9	+ 7·9	38	+10	Markree Castle.
	a Birr Castle	50	8th	26	7th	47·9	31·6	39·5	- 1·6	17	39	6	0·20	- 0·31	*25·3*	*+ 3·3*	*33*	*+ 4*	*Birr Castle.*
b, East.	p Armagh	51	9th	29	7th	48·0	34·2	40·9	+ 0·2	17	30	6	0·17	- 0·33	29·0	+ 8·5	38	+11	Armagh.
	a Donaghadee	52	8th	32	5th	47·7	36·1	41·7	+ 0·1	16	23	7	0·22	- 0·31	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	51	8th, 10th	33	7th	48·1	36·9	42·3	- 0·6	24	14	5	0·25	- 0·19	33·6	+ 9·2	44	+12	Phœnix Park.
	a Kilkenny	51	8th	29	7th	48·4	33·1	40·5	- 1·1	18	34	7	0·82	+ 0·28	*	*	*	*	*
	a Waterford	50	8th	32	7th	48·4	35·1	41·6	- 0·7	18	28	6	1·00	+ 0·31	*	*	*	*	*
	a Birr Castle	50	8th	26	7th	47·9	31·6	39·5	- 1·6	17	39	6	0·20	- 0·31	25·3	+ 3·3	33	+ 4	Birr Castle.
b, West.	a Foynes	52	10th	31	7th	48·9	36·8	42·7	- 0·4	27	15	6	0·89	+ 0·23	*	*	*	*	*
	a Cahir .. .. M	50	8th, 10th	29	7th	48·2	33·9	40·8	- 1·3	17	31	7	1·14	—	*	*	*	*	*
	a Killarney	57	8th	30	7th	52·4	36·3	44·1	+ 0·9	39	16	7	1·40	+ 0·28	*	*	*	*	*
	a Valencia	52	8th, 10th	32	7th, 8th	49·3	36·4	42·7	- 1·9	28	16	7	2·03	+ 0·97	27·0	+ 2·4	35	+ 3	Valencia.
	a Roche's Point ..	51	10th	36	7, 8, 9th	48·7	36·7	42·5	- 1·4	26	15	7	1·27	+ 0·60	—	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	50	5th	39	8th, 10th	47·7	40·0	43·7	- 1·7	20	6	6	1·14	+ 0·57	27·8	- 0·3	36	0	Scilly.
	a Jersey, St. Aubins ..	50	5, 8, 10th	33	10th	47·9	35·3	41·4	- 2·5	17	26	5	0·77	+ 0·25	25·5	- 4·2	33	- 5	St. Heliers.
	a Guernsey	52	5th	36	6th	48·3	39·0	43·5	- 0·9	23	8	4	0·87	+ 0·28	23·7	- 5·7	30	- 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 20·1 hrs. (- 5·9 hrs.), 26 % (- 8 %); Bournemouth, 22·6 hrs., 29 %; Bognor, 22·1 hrs., 23 %*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp At 1 foot.	Mean Earth Temp At 4 feet.
			°	°	°
0.	Baltasound	—	—	37·9	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·4
	Crathes	5	22	38·9	39·4
	Balmoral	6	21	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	3	25	38·9	—
2.	Cockle Park	5	24	38·4	41·1
	Durham	5	25	—	—
	York	—	—	41·7	42·5
	Hull	4	26	41·0	42·0
	Lincoln	—	—	40·6	42·0
	Rauceby	4	23	42·2	43·2
3.	Norwich	4	24	—	—
	Yarmouth	—	—	41·1	43·9
	Lowestoft	5	26	41·8	42·8
	Cambridge	4	22	42·1	43·8
	Clacton-on-Sea ..	5	23	43·0	45·0
	Southend	4	25	42·9	—
	Tottenham	4	28	—	44·2
4.	Harrogate	4	25	40·9	41·9
	Huddersfield ..	2	27	41·0	41·8
	Buxton	—	—	—	—
	Sheffield	4	27	40·7	41·8
	Nottingham.. ..	4	24	40·0	41·7
	Birmingham.. ..	3	27	40·9	44·0
	Oxford	4	24	—	—
	Hereford	4	25	—	—
	Cirencester	4	24	41·9	43·4
	Bath	—	—	43·4	44·4
5.	Margate	—	—	42·7	43·7
	Greenwich	4	24	—	—
	Westminster ..	4	24	—	—
	Kew	4	20	42·1	44·2
	Canterbury	4	28	42·7	44·7
	Tunbridge Wells ..	5	20	41·2	—
	Wisley	4	22	41·1	44·0
	Worthing	4	23	43·0	44·3
	Portsmouth	4	22	44·2	46·0
6.	Glasgow	2	23	—	—
	Rothesay	—	—	—	43·0
	Colmonell	1	27	—	—
6.	Dumfries	5	23	40·6	42·4
	Douglas	2	29	—	—
7.	Aspatria	3	25	42·0	43·3
	Newton Rigg ..	7	20	41·6	41·6
	Burnley	5	22	40·0	41·8
	Southport	4	23	41·3	43·0
	Manchester City ..	0	31	40·8	43·9
	Bettws-y-Coed ..	0	31	42·4	44·0
8.	Llangammarch Wells	6	13	41·4	44·0
	Cardiff	4	26	42·4	43·9
	Clifton	3	28	—	—
	Plymouth	4	24	43·9	—
9.	Armagh	3	23	42·8	44·5
	Markree	3	22	43·4	45·0
10.	Dublin, Trin. Coll. ..	3	26	43·4	45·3
11.	Guernsey, Brooklyn	2	25	45·3	46·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	43	41	42·0
	Wick	44	43	43·3
SCOTLAND, E.	Cromarty	41	37	38·5
	Pennan Bay	41	39	40·3
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	39	39	39·0
	Scarborough	44	40	42·3
ENGLAND, E.	Shipwash Lightship ..	43	41	42·5
	Margate‡	44	44	43·7
ENGLAND, S.E.	Eastbourne‡	45	44	44·4
SCOTLAND, W.	Lamlash	45	44	44·5
	Ballantrae	44	43	43·5
ENGLAND, N.W.	Port Erin	46	44	44·7
ENGLAND, S.W.	Newquay	47	47	47·0
	Scilly	49	46	47·4
	Plymouth‡	45	45	44·9
	Salcombe	47	45	45·6
IRELAND, N.W.	Sheephaven	46	45	45·7
	Teelin	46	44	45·0
IRELAND, S.W.	Cleggan	46	44	44·6
	Seafield	48	45	46·6
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it i so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

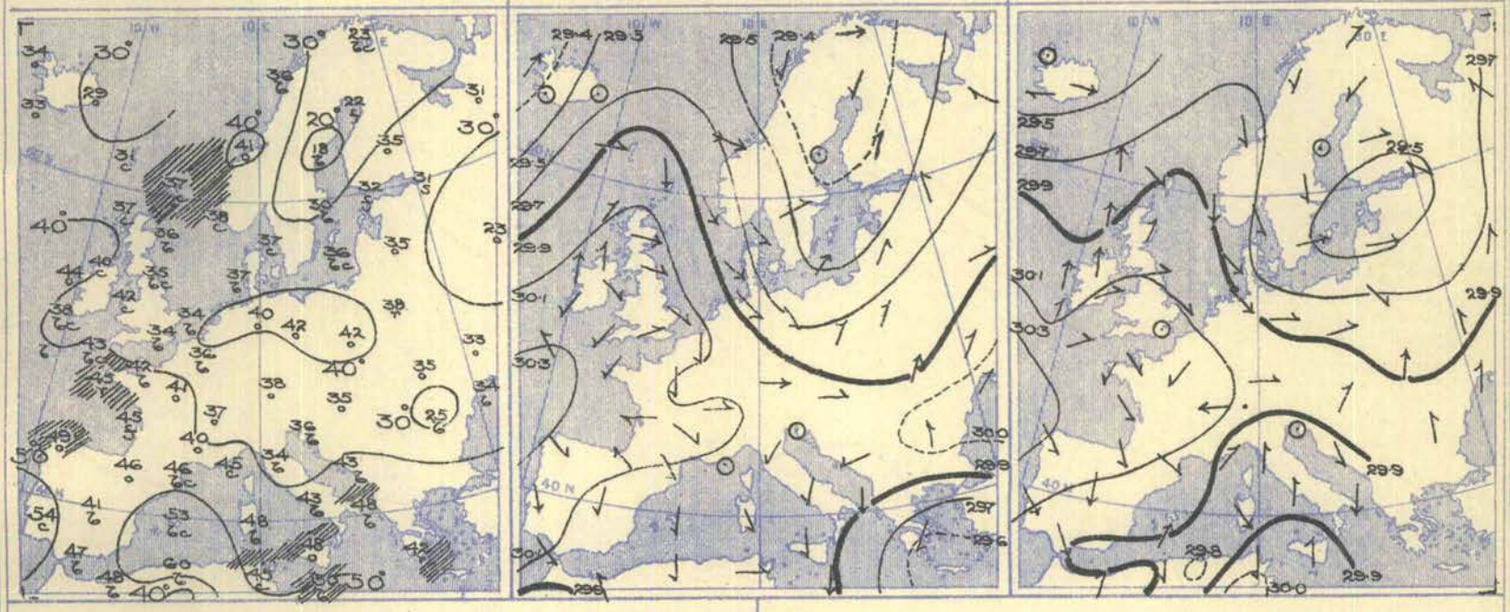
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 5th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine in most parts of these Islands, Scandinavia, and the Mediterranean region; overcast in central Europe and Russia, with rain at some German stations, and snow at St. Petersburg. Rain also falling at Athens and Brest. Rain subsequently in the west and north of the United Kingdom, and rain or snow at various places in central and northern Europe.

Temperature fallen over the greater part of our area. Morning readings ranging from 60° at Algiers and about 50° at a few other stations in the south to between 35° and 40° at most places in this country, to 23° at Moscow, and to 18° at Hernösand. Maxima during day below 50° at almost all our own stations and throughout central Europe; above 60° on some shores of the Mediterranean, and above 70° in Algeria and the extrauce south of Spain.

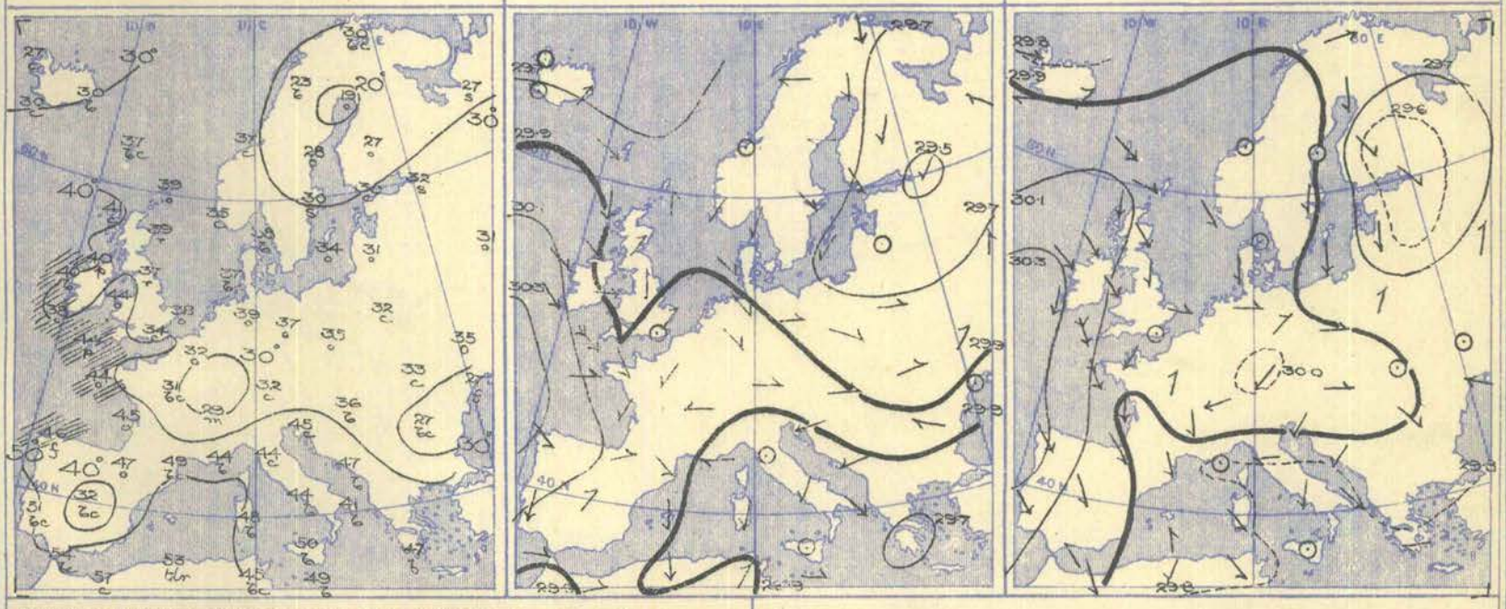
Wind in morning anticyclonic over the Bay of Biscay and a considerable portion of this country; cyclonic elsewhere. North-Westerly current moderate to strong over the North Sea, and blowing a gale at Christiansund. A high wind from North-East prevailing at Athens. Backing during day over these Islands generally, but undergoing little change in force. Gale subsiding at Christiansund and the wind veering to North.

Barometer in morning 30·2 in. and above in an anticyclonic system extending from the Azores to Ireland and England; below 29·4 in. in a large depression with slight gradients over Scandinavia, and also in another depression to the west of Iceland. Below 29·6 in. in Greece and its vicinity. A "V-shaped" depression approaching these Islands from the Atlantic later. Northern disturbances moving in an easterly direction and undergoing little modification in intensity.

Monday, 6th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in many parts of the United Kingdom, and unsettled in several other regions, with snow in some Russian localities and at Cracow. Fair to fine and bright over the major portion of southern Europe and the Mediterranean, but a thunderstorm prevailing at Algiers. Rain later throughout these Islands and the west of France, and also at Bilbao, and heavy snow at Riga.

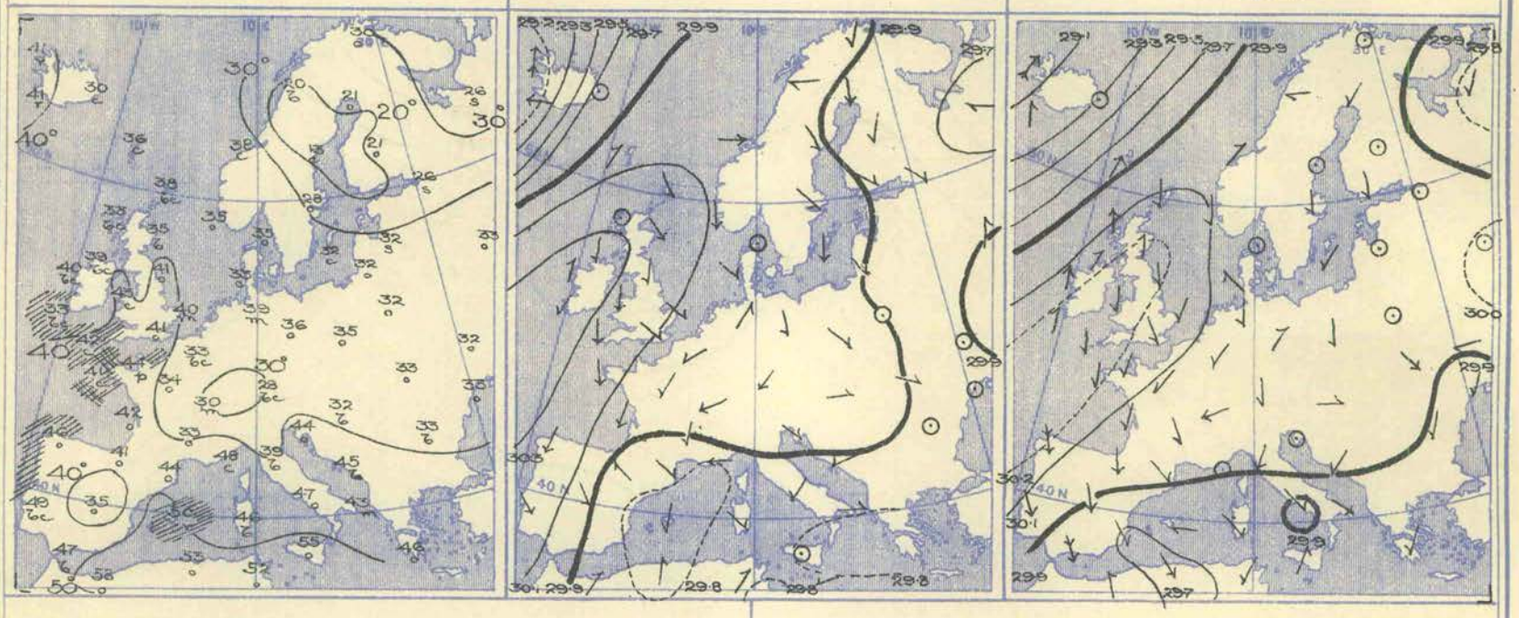
Temperature fallen in most places. Readings in morning about 55° at some stations in the extreme south-west of our area; below 40° over a large portion of these Islands and most of the European mainland, below 30° in several parts of Russia, and below 20° in the north of Sweden. Maxima during day as high as 79° at Sfax, and above 60° at many stations in the south of our area, but thermometer failing to rise to 45° at some places in this country and at many in central Europe.

Wind in morning North-Westerly in the west of these Islands, a gale at Scilly, and a strong breeze at some other stations; South-Westerly to Southerly in the east of this country, and light in force. A cyclonic circulation of little strength prevailing over northern and eastern Europe, and light to moderate winds, mainly from the Northward, in the southern regions. Northerly to North-Westerly current increasing to a gale in squalls on some parts of our western coasts later. Veering to West or North-West in the east of England, but remaining light.

Barometer in morning ranging from above 30·4 in. in the Azores region to below 29·7 in. in a depression between Iceland and Norway, and also in a disturbance over Greece, and to 29·5 in. in a minimum near St. Petersburg. A well-marked "V-shaped" depression shown over this country. The latter disturbance moving eastward during day and undergoing much modification in form. Increase of pressure in its rear rather brisk in Ireland and Scotland. No great change taking place in the general distribution.

Tuesday, 7th March, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.



Weather in morning fair to fine over the greater portion of the United Kingdom and in a few other regions, but very cloudy or overcast generally, with rain in places in the south-west of our area, and snow at Swinemünde and in the north of Russia. Rain experienced later in most parts of these Islands, but measurements generally small. Rather heavy falls occurring at Palma and Alicante, and also in the adjacent portion of Africa.

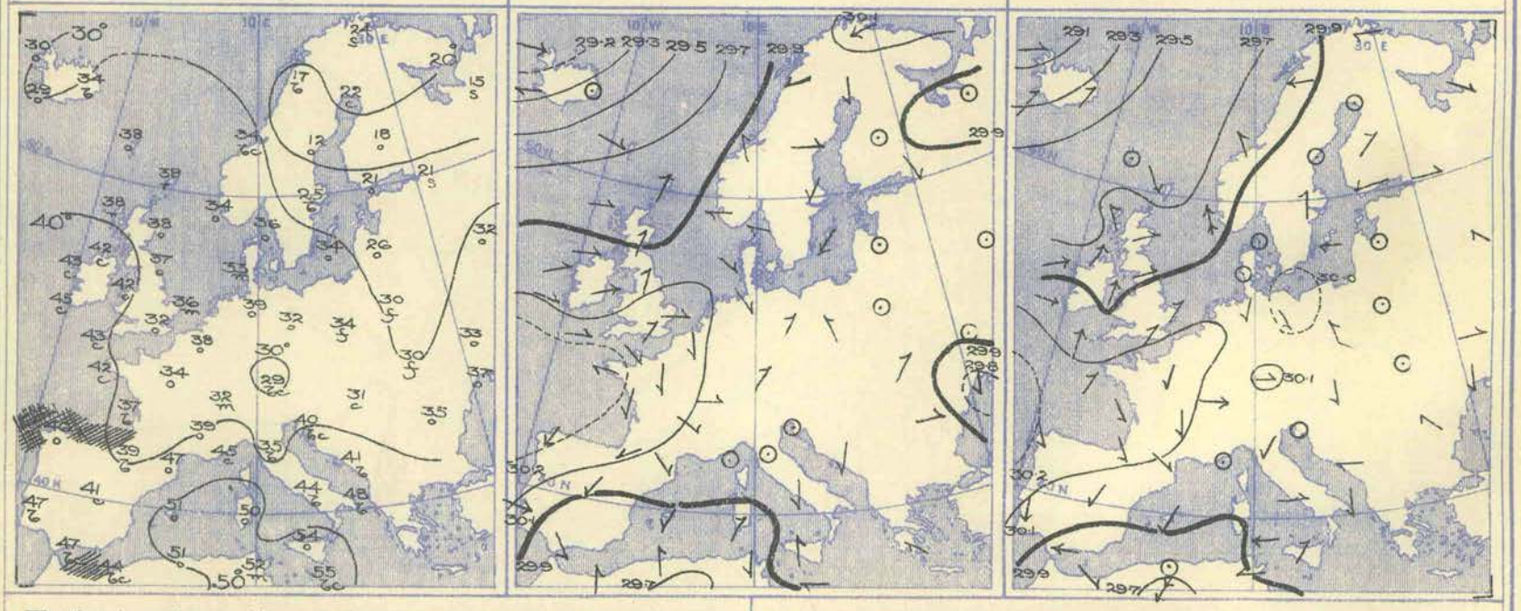
Temperature fallen in most regions, risen at some English stations. Morning readings ranging from about 50° at many places on the shores of the Mediterranean to below 32° in central Ireland and the north-east of Scotland and to 20° or below in Finland. Maxima during day below 50° in these Islands, the north and east of France, and the Netherlands, and below 45° over a portion of central Europe. Thermometer touching 60° at a few places in the extreme south of Europe and in Algeria.

Wind in morning strong to a gale from the Southward in western Iceland and light from that quarter in the west of Ireland. Mainly from some Northerly point over our area generally, and of little force, but fresh or strong on the coast of Portugal, and also in the south-west of England, and at Wisby. Southerly current extending somewhat over these Islands during day, but little change in direction over our area generally. A Northerly gale setting in at Malaga.

Barometer in morning above 30·4 in. in an anticyclone stretching to the south-west of Ireland from the Azores; below 29·2 in. in a depression centred to the westward of Iceland, and relatively low in some other parts of our area. Pressure giving way later in the west and north of these Islands and over the Icelandic region, but changing little on the Continent, and the general situation undergoing but slight modification.

Wednesday, 8th March, 1911.

Temperature and Weather. 7 a.m. | Barometer and Wind. 7 a.m. | 6 p.m.



Weather in morning generally very cloudy or overcast in these Islands and over the northern and north-western countries of the Continent, with rain in some Irish and Scottish localities, and also at the Helder, and snow in Finland and northern Russia. Mostly fair to fine over the southern regions. Rain setting in during the ensuing twenty-four hours in all parts of the United Kingdom and Brittany, and various amounts falling in several other districts. As much as 0·7 in. measured in the south of Sardinia, and nearly an inch at Nemours.

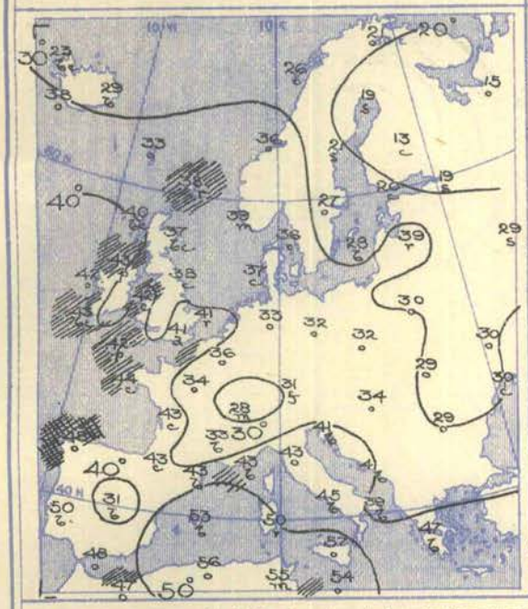
Temperature risen in Ireland and Scotland, fallen in England and over a large area on the Continent. Morning readings ranging from about 50° at some stations in the extreme south and 45° in the south of Ireland to about 32° over a wide area in France, central Europe, and Russia, and to below 20° at some places in the north of Russia, Finland, and Sweden. Rising to 50° later in some Irish and Scottish localities and over a large portion of France and to 60° or slightly higher at some Italian, Spanish, and Algerian stations. Maxima below 40° in many parts of central Europe, and below 32° in the far north and north-east.

Wind in morning showing partial cyclonic circulations except over the Bay of Biscay, France and the south of England. A high wind from West prevailing in the west of Iceland, but force very light to moderate as a whole. Increasing to a fresh or strong breeze from between West and South by evening in the west of these Islands, and reaching the force of a gale in squalls at night from the North-Westward on the Irish Sea and at Scilly. Increasing to a gale from the Southward at Skudesnaes, and from the North-East at Laghouat, Algeria.

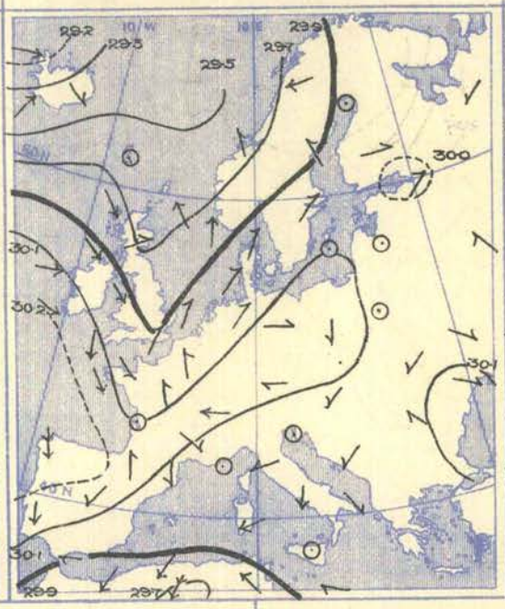
Barometer in moring above 30·4 in. in the Azores and relatively high as far east as central Europe; below 29·2 in. in the west of Iceland, and low in some depressions of considerable size but little intensity in other parts of our area. A well-defined "V-shaped" disturbance appearing over these Islands later and moving eastward. A depression over northern Africa extending northward and apparently growing deeper. Pressure becoming extremely uniform over a large area in Russia and central Europe.

Thursday, 9th March, 1911.

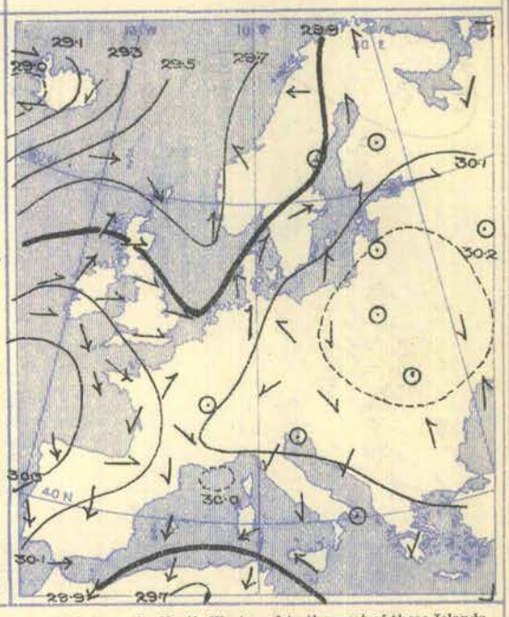
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to fine at most places in the west and north of the United Kingdom, rainy in the south-east and east of England; cloudy or overcast at most stations over the north and north-west of the Continent, with rain or snow in a few localities. Generally very fine in the south of our area, but overcast in Algeria, and rainy at Cagliari. More than an inch of rain experienced later at some Algerian stations and smaller amounts in a few parts of the Continent, as well as in this country.

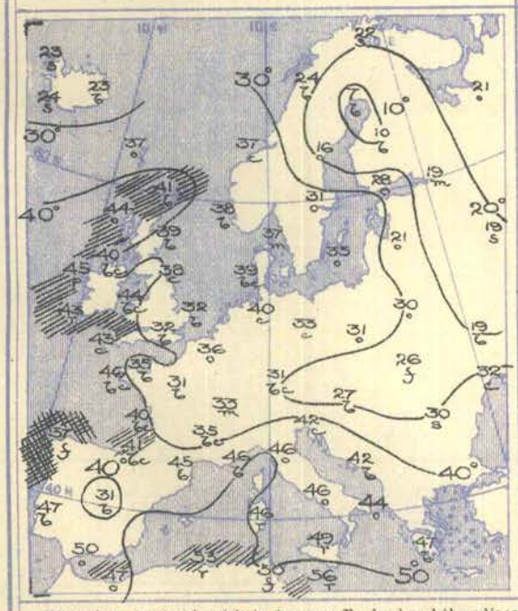
Temperature risen in England, fallen in Ireland and Scotland. Morning readings ranging from below 26° at several places in the north-east of the Continent and about 32° in central Europe to between 45° and 50° over a large area in the south, to 56° at Algiers and Oran, and to 60° at Sfax. Maxima during day below 50° at almost all our own stations, in central Europe, and most of France, and not much above it at many places in the far south, but about 60° at a few stations on the shores of the Mediterranean.

Wind in morning fresh to strong or high from the North-Westward in the west of these Islands and more moderate in force from the Southward or South-Westward in the east and south-east of England and over the North Sea region. Light and rather variable over the major portion of the Continent, but strong to a gale from the North-Eastward in Algeria, and blowing a gale from North-North-West at Corunna. Wind veering in the east and south-east of England during day. Continuing strong or high on the coast of Algeria, but gale subsiding at Corunna.

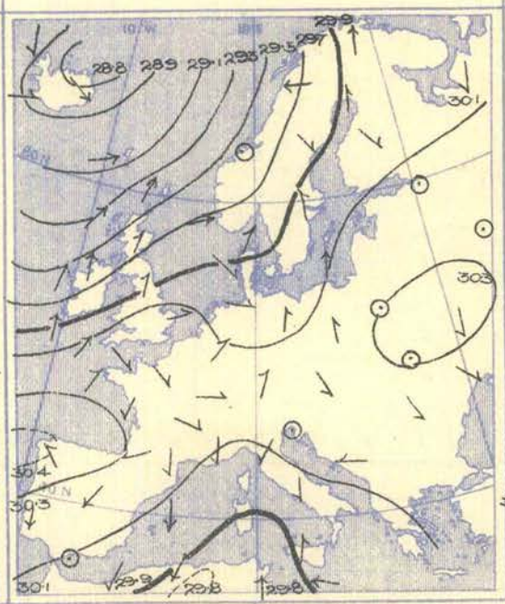
Barometer in morning above 30·4 in. in the Azores, and relatively high in the extension across central Europe to the Baltic. Below 29·2 in. in the north-west of Iceland, and low in a "V-shaped" disturbance moving eastward over these Islands. Pressure very uniform in the eastern half of our area. Below 29·6 in. in a depression over northern Africa. The secondary disturbance moving eastward across these Islands during day, but pressure continuing to give way in Iceland, and another fall setting in in Ireland by evening. Pressure increasing rather decidedly over the eastern portion of central Europe.

Friday, 10th March, 1911.

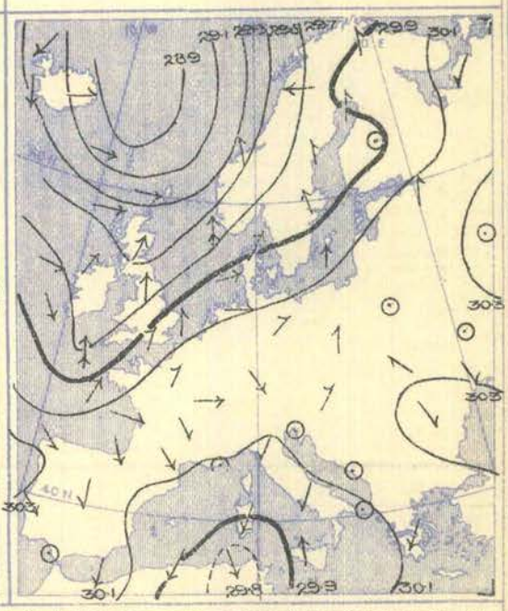
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to fine over England and the adjacent portion of the Continent, but rainy in several parts of Ireland and at Castlebay. Much cloud, with rain or snow in places, prevailing over the northern countries of the Continent, and variable weather in the south and on the shores of the Mediterranean. Rain falling at many stations, but sky clear in the south of France and in the Spanish Peninsula. Rain falling later throughout the United Kingdom and Brittany, as well as in Algeria and Sardinia. More than 0·5 in. at some of our western stations.

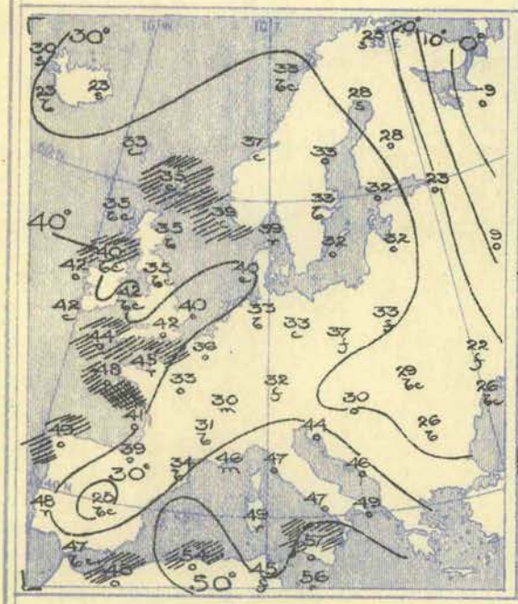
Temperature fallen in England and in several parts of the Continent, risen in Ireland and Scotland. Morning readings ranging from 56° at Malta and 54° at Oran to below 40° over our area as a whole, to below 32° at most places over the eastern half of the Continent, and to below 10° in the northern parts of Sweden and Finland. Maxima during day about 50° in a few parts of these Islands, the Netherlands, and France, and about 60° in various places in the far south of our area. Frost continuing throughout in the most northern and north-eastern regions.

Wind in morning Southerly to South-Westerly over the north-western regions generally, but high from the Northward in the west of Iceland. A fresh to strong or high wind prevailing on our extreme west and north-west coasts. A strong breeze from the North-Eastward blowing on some shores of the Mediterranean. Increasing to a gale later in some parts of the west of these Islands and in Shetland, and to a high wind at Portland Bill and Brest. Veering to the North-Westward on the west coast of Ireland. A gale from South setting in on the south-west coast of Norway.

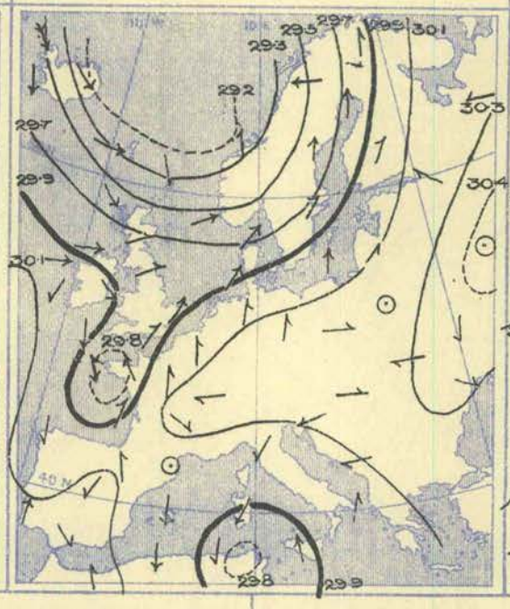
Barometer in morning above 30·4 in. between Spain and the Azores, and above 30·3 in. over a considerable area in the east of the Continent; below 23·8 in. in a large depression centred over Iceland, and relatively low in a "V-shaped" secondary off the west of Ireland. Main depression moving Eastward later and that off Ireland moving Eastward and South-Eastward. A large disturbance over the north of Africa undergoing little modification.

Saturday, 11th March, 1911.

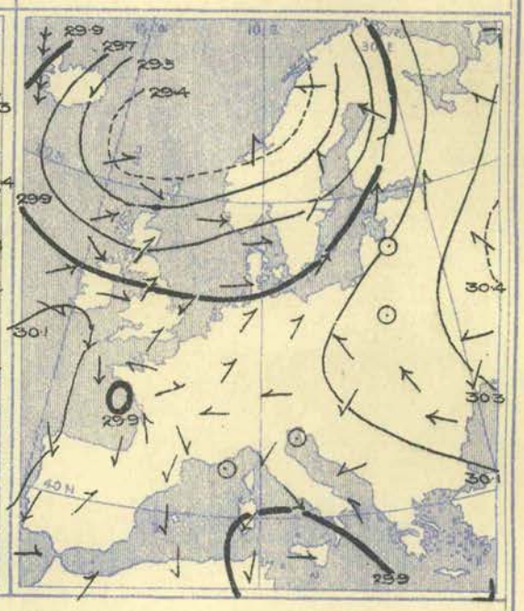
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery in some parts of these Islands and rainy in Brittany. A good deal of cloud prevailing over our area generally with rain in some southern regions and snow at a few places in the far north. Snow and sleet experienced later at some of the northern stations in these Islands, and rain in places over a wide area in the western half of Europe, and also in southern Sardinia.

Temperature below 40° over the major portion of our area, below 32° over a large district in the east and north, and also at Madrid, and as low as 9° below zero at Archangel. Above 50° at some stations in the south, and 57° at Palermo. Remaining below 50° throughout the day at almost all our own stations and in most of Germany and Austria, but rising to 55° or above in the south and south-west of France and to 60° in the south of Spain. Slight frost at night in various parts of England and Scotland.

Wind in morning mainly Westerly in these Islands, drawing into South-West over the North Sea region, and into South in Sweden and Finland. A Southerly gale prevailing at Christiania Fjord. A complete cyclonic movement shown over Brittany and the south-west of this country, and a more extensive movement over the Mediterranean. A Northerly gale continuing all day in western Iceland. Not much change as a whole, but backing suddenly at night in the west and south-west of these Islands.

Barometer in morning ranging from about 30·4 in. both at the Azores and in central Russia. Below 29·8 in. in a depression centred not far from Tunis and also in another over Brittany, and below 29·2 in. in a large system between Norway and Iceland. Scarcely any change occurring later in day in the general distribution of pressure, but a considerable increase taking place in Iceland. Another disturbance appearing in the south-west of these Islands during night.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
1	1911. March 2nd, 10.0 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	280° 100% 260°, 8·9	279·5° 100% 270°, 8·9	? ° 100 % ? °, ?					278·7° 100% 290°, 19	Metres. 730	Overcast stratus at 100 m. above which kite not seen. Wind dir. by wire.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites..	1
Area of Surface (sq. metres) ..	4·5
Capacity of Balloon (cub. metres	—
Length of Wire (metres)	800

South Kensington, London, S.W. *March 15th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 11. ELEVENTH WEEK, SUNDAY, MARCH 12TH, TO SATURDAY, MARCH 18TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. The conditions varied greatly in the different districts. Rain, sleet or snow fell in almost all parts of the Kingdom early in the week, the rain being heavy in the south and south-west of England, but later the weather in the west and north-west was generally dry, although seldom very bright, while occasional precipitation, continued in the east and south. A thunderstorm occurred at Rothamsted and Raunds on the 13th; at the latter station it was accompanied by a violent snowstorm and great darkness.

Temperature was below the average, the deficit exceeding 3° in the Midland Counties and England S.E. and S.W. Over the greater part of the Kingdom the highest of the maxima were recorded towards the end of the period, but at most places in the north-east and at several in the north-west they occurred more commonly on the 12th. The figures ranged from 54° in Ireland S. and the English Channel, to 47° in Scotland N. and E. and England S.E. The lowest of the minima, occurred on rather irregular dates, but generally either at the beginning or end of the week. In England S.W. the minimum recorded was 22°, in the Midland Counties to 24°, and in Ireland N. to 25°, while elsewhere the readings ranged from 27° in Scotland E. and W. to 30° in Scotland N. and to 31° in the English Channel. The lowest grass readings reported were 11° at Llangammarch Wells, 18° at Plymouth, 19° at Newton Rigg, and 20° at Aspatria, Markree, Kew, Portsmouth and Guernsey.

Mean Temperature of the Sea. On most parts of the coast the water was colder than during the corresponding week of last year—as much as 3° or more at Cromarty and Margate. The mean values for the week ranged from 47° at Newquay, and between 45° and 46° at several other places in the south-west and west to less than 40° at Pennan Bay and Kirkwall, and to 38° at Cromarty.

Rainfall was greatly in excess of the average in the eastern, central and southern parts of Great Britian, but much less in Ireland, the north-west of England, and the west and north of Scotland. Falls of about an inch were registered at many southern and south-western stations on the 12th and the amount at Eastbourne and Ventnor exceeded 1.1 inch.

Bright Sunshine was less than the normal in most parts of Great Britain, but more in Scotland N. and W., and also in Ireland. The percentage of the possible duration ranged from 40 in Ireland N. and the English Channel, and 39 in Ireland S. to 22 in England S.E., 21 in England N.E., and to 18 in England E.

Barometer and Wind. Early in the week a depression travelled Eastwards over the south of England and the Channel to the Netherlands, and Schleswig-Holstein and the Northerly and North-Westerly winds in its rear were strong to a gale on many parts of our coasts. During the night of Tuesday the same system moved westward towards the east of England, and finally south-westwards to the south-east of England, while another disturbance appeared over Schleswig and moved towards this country. In the meantime pressure had become highest in Iceland and Scandinavia, and the wind over these Islands shifted to the Eastward, and blew freshly or strongly in places. Towards the end of the week a depression from the Atlantic appeared over the Bay region, and the Easterly winds in these Islands increased considerably in force generally, and reached the strength of a gale on various parts of the coast.

THE WEEK

For explanation of the terms "Unusual," &c., *see* p. 84.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Light	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very light	Moderate	Heavy	Light	Moderate	Very heavy
	Sunshine ...	Abundant	Moderate	Scanty	Scanty	Scanty	Scanty	Abundant	Moderate	Moderate	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 2 weeks from Mar. 5th, 1911.	Warmth ...	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 0	0 * 2	0 * 0
	Rainfall ...	1 * 1	1 * 0	1 * 1	1 * 0	1 * 0	1 * 0	0 * 1	0 * 0	2 * 0	0 * 1	1 * 0	2 * 0
	Sunshine ...	2 * 0	1 * 0	0 * 1	0 * 1	0 * 1	0 * 2	2 * 0	1 * 0	0 * 0	2 * 0	2 * 0	0 * 0

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

9487 / 450 Wy. & S., Ltd. 3—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	ELEVENTH WEEK—March 12th to March 18th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	47	30	42·1	33·8	37·9	− 1·2	0	− 9	28	− 3	4	− 1	0·40	−0·66	23	+ 3	28	+ 4
Eastern																		
1. SCOTLAND, EAST	47	27	42·1	32·9	37·4	− 1·9	0	− 15	31	− 3	6	+ 2	0·84	+0·31	24	0	30	0
2. ENGLAND, N.E.	50	28	42·7	33·0	37·7	− 3·0	2	− 17	31	+ 4	7	+ 4	0·96	+0·54	17	− 11	21	−13
3. ENGLAND, EAST	52	28	43·8	32·7	38·1	− 2·8	5	− 19	33	+ 4	6	+ 3	1·10	+0·77	15	− 13	18	−16
4. MIDLAND COUNTIES	48	24	43·6	32·2	37·7	− 3·3	4	− 20	34	+ 5	5	+ 2	0·62	+0·25	19	− 5	24	− 6
5. ENGLAND, S.E.	47	28	43·7	33·6	38·5	− 3·5	5	− 19	30	+ 8	5	+ 2	0·88	+0·48	18	− 9	22	−11
Western																		
6. SCOTLAND, WEST	50	27	44·8	34·1	39·3	− 1·4	8	− 8	29	+ 4	2	− 2	0·06	−0·72	29	+ 6	36	+ 7
7. ENGLAND, N.W.	50	28	43·6	35·0	39·2	− 2·0	4	− 14	25	+ 3	4	0	0·38	−0·13	21	− 3	25	− 4
8 ENGLAND, S.W.	49	22	44·5	33·4	38·7	− 3·8	7	− 17	30	+12	4	0	1·10	+0·53	27	0	34	0
9. IRELAND, NORTH	51	25	45·8	34·8	40·1	− 1·7	11	− 10	26	+ 5	3	− 2	0·13	−0·43	33	+ 10	40	+12
10. IRELAND, SOUTH	54	28	46·3	34·8	40·4	− 2·9	12	− 15	27	+11	4	0	0·45	−0·18	31	+ 6	39	+ 7
11. ENGLISH CHANNEL	54	31	48·0	37·4	42·6	− 2·5	24	− 5	13	+ 6	7	+ 3	1·36	+0·89	32	− 1	40	− 2
	THE SEASON (Spring).—Aggregates, &c., for the Period of 2 Week, March 5th, to March 18th, 1911.																	
0. SCOTLAND, NORTH	50	25	*	*	*	*	8	− 8	60	− 6	10	0	1·93	−0·16	52	+12	33	+ 9
Eastern																		
1. SCOTLAND, EAST	52	24	*	*	*	*	11	− 14	66	− 6	11	+ 3	1·21	+0·14	59	+14	38	+ 9
2. ENGLAND, N.E.	50	28	*	*	*	*	15	− 18	60	+ 2	11	+ 4	1·25	+0·41	44	− 8	28	− 5
3. ENGLAND, EAST	52	28	*	*	*	*	18	− 23	64	+ 2	11	+ 5	1·45	+0·78	35	−16	22	−10
4. MIDLAND COUNTIES	51	24	*	*	*	*	16	− 26	65	+ 3	9	+ 3	1·01	+0·22	38	− 7	24	− 5
5. ENGLAND, S.E.	50	26	*	*	*	*	18	− 25	59	+11	9	+ 3	1·32	+0·47	37	−13	23	− 8
Western																		
6. SCOTLAND, WEST	51	26	*	*	*	*	21	− 6	57	+ 3	7	− 1	0·62	−0·99	57	+12	36	+ 8
7. ENGLAND, N.W.	50	28	*	*	*	*	16	− 15	48	0	9	+ 1	0·81	−0·26	47	+ 3	30	+ 2
8. ENGLAND, S.W.	50	22	*	*	*	*	19	− 25	54	+14	9	+ 1	2·10	+0·86	53	+ 2	33	+ 1
9. IRELAND, NORTH	52	25	*	*	*	*	26	− 12	52	+ 7	9	0	0·64	−0·53	62	+19	39	+12
10. IRELAND, SOUTH	57	26	*	*	*	*	31	− 19	55	+20	10	+ 2	1·45	+0·13	60	+10	38	+ 6
11. ENGLISH CHANNEL	54	31	*	*	*	*	47	− 7	24	+ 8	12	+ 4	2·29	+1·24	58	− 5	37	− 3
	THE YEAR.—Aggregates, &c., for the Period of 11 Weeks, January 1st to March 18th, 1911.																	
0. SCOTLAND, NORTH	55	14	*	*	*	*	97	+ 21	279	−117	56	0	14·34	+1·29	138	+ 12	21	+ 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	96	+ 3	350	− 99	45	+ 2	5·54	−0·52	202	+ 33	30	+ 5
2. ENGLAND, N.E.	58	19	*	*	*	*	139	+ 26	281	− 78	39	− 1	3·76	−0·47	178	0	25	0
3. ENGLAND, EAST	59	16	*	*	*	*	130	− 1	317	− 84	47	+ 7	4·71	+0·67	182	− 9	25	− 1
4. MIDLAND COUNTIES	60	14	*	*	*	*	138	− 8	309	− 89	36	− 3	3·58	−1·39	167	+ 2	23	0
5. ENGLAND, S.E.	58	16	*	*	*	*	121	− 40	286	− 21	38	0	4·44	−0·86	189	+ 5	26	+ 1
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	144	+ 28	239	− 77	47	− 1	10·01	−0·45	167	+ 16	24	+ 2
7. ENGLAND, N.W.	58	17	*	*	*	*	127	+ 2	232	− 67	41	− 3	6·10	−0·64	173	+ 16	25	+ 2
8. ENGLAND, S.W.	56	13	*	*	*	*	132	− 63	227	− 12	42	− 2	7·07	−1·17	195	+ 8	27	+ 1
9. IRELAND, NORTH	58	18	*	*	*	*	179	+ 16	220	− 42	46	− 5	6·04	−1·66	194	+ 33	28	+ 5
10. IRELAND, SOUTH	59	18	*	*	*	*	220	− 16	226	+ 26	47	+ 1	6·39	−2·48	199	+ 14	28	+ 2
11. ENGLISH CHANNEL	54	29	*	*	*	*	235	− 38	105	+ 10	45	− 4	5·76	−1·20	216	− 15	29	− 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*44*	*15th*	*26*	*12th*	*41·4*	*33·3*	*37·2*	—	*0*	*34*	*4*	*0·30*	—	*15·2*	—	*19*	—	*Baltasound.*
	a Sumburgh Head ..	46	17th	32	12,13,14,15,16	43·1	32·9	37·9	− 0·5	3	32	3	0·20	− 0·50	2·3	− 20·2	3	− 25	Deerness.
	a Stornoway	47	16th	33	12, 13, 14th	43·4	34·4	38·8	− 0·6	4	27	5	0·34	− 0·59	42·2	+ 19·8	53	+ 25	Stornoway.
	a *Castlebay, Barra Isd.*	*46*	*17th*	*36*	*12, 13, 14th*	*44·0*	*37·1*	*40·5*	− *1·7*	*6*	*18*	*3*	*0·07*	—	*51·9*	—	*65*	—	*Castlebay.*
	a Wick	45	15, 16, 17th	30	12th	42·7	34·0	38·2	− 1·1	2	27	6	0·46	− 0·04	*	*	*	*	* *
	p Strathpeffer.. ..	44	16th	33	12th, 13th	41·0	34·2	37·5	− 1·1	0	32	5	0·47	− 0·13	18·3	− 1·6	23	− 2	Strathpeffer.
	b, Mainland. p Glencarron .. S	42	16th	31	12th	39·5	32·7	36·0	− 2·0	0	42	5	0·46	− 1·31	*	*	*	*	* *
	p Fort Augustus S	43	12, 16, 17th	31	12th	41·9	34·5	38·1	− 0·9	0	27	4	0·70	− 0·13	27·6	+ 10·7	35	+ 13	Fort Augustus.
	p Fort William S	45	16th	32	12th	43·1	34·1	38·5	− 1·7	3	28	1	0·14	− 1·38	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	45	16th, 17th	31	15th, 18th	42·0	32·4	37·1	− 2·9	0	34	7	0·60	+ 0·09	*19·1*	—	*24*	—	*Gordon Castle.*
	a Nairn	45	16th	31	16th	41·7	33·1	37·3	− 2·0	0	33	5	0·41	+ 0·01	20·2	—	25	—	Nairn.
	a Aberdeen	47	16th	33	14th	43·3	34·9	39·0	− 0·8	4	25	7	0·90	+ 0·37	28·6	+ 2·8	36	+ 4	Aberdeen.
	a Balmoral .. S	43	15th	30	12th, 15th	41·3	31·4	36·2	+ 0·7	0	41	7	1·48	+ 0·84	16·9	—	21	—	Crathes S.
	p Crieff .. .. S	45	12th, 16th	30	12th, 13th	42·9	32·6	37·6	− 2·2	3	32	4	0·30	− 0·39	29·2	—	37	—	Balruddery.
	a Leith	46	12th	34	13th	43·9	35·9	39·8	− 1·4	5	22	4	0·66	+ 0·31	*	*	*	*	* *
	p West Linton.. S	44	12th	27	13th	40·4	30·7	35·4	− 2·4	0	46	6	1·04	—	*20·3*	—	*25*	—	*West Linton.*
	p Marchmont .. S	45	12th	29	13th	40·9	32·4	36·5	− 2·1	0	39	7	1·32	+ 0·77	23·3	− 0·4	29	0	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	47	12th	32	13th	42·4	34·0	38·1	− 1·7	1	28	7	1·69	+ 1·14	26·5	—	33	—	Cockle Park.
	a Shields	50	12th	29	13th	43·3	31·7	37·3	− 3·0	4	36	7	1·09	+ 0·67	*22·9*	+ *3·4*	*29*	+ *4*	*Newcastle.*
	p Durham	47	12th	30	13th	41·8	32·4	37·0	− 2·6	0	35	7	1·07	+ 0·69	14·6	− 9·9	18	− 12	Durham.
	p Rounton .. M	46	12th	28	13th	42·2	31·7	36·8	− 2·6	1	35	7	0·94	+ 0·53	*	*	*	*	* *
	p Scarborough.. M	43	12, 13, 14, 15	33	13th	42·4	35·4	38·8	− 2·1	1	23	6	0·94	+ 0·53	9·0	—	11	—	Scarborough.
	p York	45	12th, 15th	30	13th	43·4	34·0	38·6	− 2·2	4	28	7	0·74	+ 0·38	12·7	− 9·1	16	− 11	York.
	b, South. a Spurn Head	43	12, 16, 17th	32	13th, 15th	42·1	33·9	37·9	− 2·8	0	28	6	0·93	+ 0·63	*	*	*	*	* *
	a Lincoln	45	12th, 17th	30	13th	43·4	32·1	37·6	− 2·5	4	35	5	0·70	+ 0·35	20·3	—	25	—	Skegness.
	a Fulbeck	46	17th	30	13th	43·1	32·2	37·5	− 3·5	3	34	7	0·58	+ 0·23	19·2	—	24	—	Rauceby.
															21·1	—	*26*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	47	14th	31	12th, 17th	43·9	33·1	38·3	− 1·9	5	31	6	0·75	—	14·1	—	17	—	Cromer.
	p Hillington .. M	48	12th	29	12th	43·8	31·5	37·5	− 3·1	5	37	6	1·93	+ 1·51	14·2	− 11·7	18	− 13	Hillington.
	a Yarmouth	47	12th	33	12,13,15,16,17	43·4	33·3	38·2	− 1·7	4	30	7	1·22	+ 0·89	18·1	—	22	—	Yarmouth.
	a Norwich	48	12th	31	12th, 16th	43·5	32·6	37·9	− 2·5	4	33	7	1·50	—	*	*	*	*	* *
	p Geldeston	47	12th	30	12th	44·7	32·9	38·6	− 2·2	8	32	5	1·13	+ 0·78	15·3	− 12·1	19	− 15	Geldeston.
	b, South. p Cambridge	46	12, 16, 17th	28	12th	44·2	32·0	37·9	− 3·4	6	35	5	0·79	+ 0·47	17·7	− 9·1	22	− 11	Cambridge.
	a *Felixstowe*	*45*	*12th, 13th*	*32*	*14th, 17th*	*42·9*	*33·3*	*38·0*	− *3·0*	*3*	*30*	*5*	*0·91*	—	*20·2*	—	*25*	—	*Felixstowe.*
	a Clacton-on-Sea ..	46	12th, 16th	32	15th, 17th	43·1	33·1	38·0	− 2·5	3	31	5	0·80	—	12·4	—	15	—	Clacton.
	a Rothamsted ..	45	16th	29	12th, 17th	43·0	31·3	37·0	− 3·3	3	37	7	0·86	+ 0·44	15·0	− 10·4	19	− 13	Rothamsted.
	a *Shoeburyness* ..	*44*	*16th, 18th*	*32*	*13, 15, 17th*	*42·7*	*33·7*	*38·1*	− *3·9*	*2*	*29*	*5*	*0·76*	+ *0·50*	*13·7*	—	*17*	—	*Southend.*
	p Tottenham	52	17th	32	17th	44·6	34·3	39·3	− 2·2	7	28	5	0·89	—	11·5	—	14	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	43	18th	30	13th	41·5	32·9	37·1	− 2·2	0	34	7	0·83	+ 0·35	17·3	—	21	—	Harrogate.
	a Bawtry	46	17th	30	13th	44·0	32·6	38·1	− 3·1	6	33	7	0·45	+ 0·11	14·6	− 7·4	18	− 9	Worksop.
	p *Buxton* .. M	*42*	*16th*	*27*	*13th*	*39·3*	*30·8*	*34·9*	− *2·7*	*0*	*50*	*6*	*0.71*	− *0·22*	*14·4*	—	*18*	—	*Buxton.*
	a Nottingham ..	46	17th	32	12, 17, 18th	44·1	32·7	38·2	− 2·6	6	33	5	0·54	+ 0·19	20·3	—	25	—	Nottingham.
	p Birmingham, Edgbsn	45	16th, 17th	31	13th, 17th	42·4	32·7	37·4	− 2·9	1	32	4	0·70	+ 0·30	13·9	—	17	—	Birmingham.
	a Raunds .. M	47	17th	29	12th	43·9	31·4	37·5	− 2·9	5	37	6	0·78	—	*	*	*	*	* *
	b, West. a Oxford	47	17th	30	17th	44·7	33·0	38·7	− 2·8	8	32	4	0·60	+ 0·28	19·0	− 5·6	24	− 7	Oxford.
	a Cheadle .. M	44	16th	28	13th	42·2	31·4	36·6	− 2·9	1	36	3	0·52	+ 0·02	14·0	—	17	—	Sheffield.
	p Shrewsbury	48	17th	32	17th	45·1	33·9	39·3	− 2·5	9	29	5	0·45	—	*	*	*	*	* *
	a Hereford .. M	46	17th	27	17th	44·1	31·6	37·7	− 3·8	6	37	5	0·47	+ 0·08	*	*	*	*	* *
	a Cirencester	45	17th	24	17th	42·6	29·9	36·1	− 3·9	2	42	4	0·64	+ 0·18	28·4	+ 2·9	35	+ 4	Cirencester.
	a Bath	46	13, 16, 17th	28	17th	44·9	32·0	38·3	− 3·5	8	36	4	0·84	+ 0·37	24·9	—	31	—	Bath.
															17·6	—	*22*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	47	17th	31	17th	44·3	34·2	39·1	− 2·5	6	28	5	0·58	+ 0·22	13·9	− 8·8	17	− 11	Kew.
	a Marlborough ..	45	17th	28	17th	43·1	31·1	36·9	− 3·2	3	38	4	0·76	+ 0·22	20·7	− 2·0	26	− 2	Marlborough.
	a Margate	47	12th	33	15, 16, 17th	43·8	34·8	39·2	− 2·2	5	26	5	0·74	+ 0·40	14·2	− 12·4	18	− 15	Margate.
	a Wisley, Surrey ..	46	17th, 18th	30	17th	44·1	33·1	38·4	− 3·8	6	31	4	0·59	—	10·7	—	13	—	Wisley.
	a Swarraton .. M	47	17th	28	17th	43·4	32·1	37·6	− 2·8	4	35	6	0·79	+ 0·29	19·2	—	24	—	Worthing.
	a Tunbridge Wells M	44	12th, 17th	31	13th, 15th	41·3	32·0	36·5	− 4·7	0	39	5	1·23	+ 0·73	11·2	− 15·0	14	− 21	Tunbridge Wells.
	a Dungeness	47	12th	31	15th	43·6	34·3	38·8	− 2·7	4	27	5	1·02	+ 0·66	15·3	—	19	—	Littlestone.
	p Hastings	46	12th	32	15th	42·5	35·2	38·7	− 3·2	1	23	5	0·90	+ 0·42	*15·6*	− *14·2*	*19*	− *18*	*Hastings.*
	p Southampton ..	47	17th	30	17th	44·9	33·6	39·1	− 4·2	8	30	2	0·90	+ 0·41	24·8	− 2·7	31	− 3	Southampton.
	a Ventnor	47	14th, 16th	33	13, 15, 17th	45·5	35·1	40·2	− 3·1	10	26	4	1·27	+ 0·81	29·0	− 2·0	36	− 2	Ventnor.
															17·9	− 11·4	22	− 14	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*46*	*12th, 16th*	*30*	*17th*	*44·7*	*34·9*	*39·7*	− *2·2*	*8*	*26*	*6*	*0·73*	+ *0·35*	*9·1*	− *5·9*	*11*	− *7*	*Westminster.*
	a *Greenwich*	*47*	*12th*	*29*	*17th*	*44·1*	*32·6*	*38·2*	− *4·6*	*6*	*33*	*5*	*0·78*	+ *0·41*	*10·1*	− *11·4*	*13*	− *14*	*Greenwich.*
6. — a, SCOTLAND. W.	a Poltalloch .. S	46	16th	30	16th	44·5	33·6	38·9	− 1·4	7	30	3	0·04	− 0·76	*	*	*	*	* *
	p Glasgow	44	12, 15, 16th	33	13th	42·9	35·2	38·9	− 1·1	3	23	4	0·13	− 0·43	28·7	+ 10·7	36	+ 13	Glasgow.
	p Rothesay .. S	49	15th	31	12th, 13th	45·6	35·0	40·1	− 0·8	10	26	3	0·04	− 0·71	*	*	*	*	* *
	a Kilmarnock	45	12, 15, 17th	30	13th, 14th	43·1	34·1	38·5	− 1·7	3	28	2	0·03	—	*33·0*	—	*41*	—	*Kilmarnock.*
	a Colmonell .. S	50	16th	32	17th	46·9	35·0	40·8	− 0·4	14	27	2	0·06	− 0·70	*	*	*	*	* *
	p Dumfries .. S	49	16th	29	13th	44·6	33·0	38·6	− 1·9	7	32	2	0·08	− 0·57	*29·6*	—	*37*	—	*Dumfries.*
	p Cally, Gatehouse S	48	12th, 16th	27	13th	46·1	31·4	38·5	− 1·7	11	38	0	0·00	− 0·87	*	*	*	*	* *
	b, ISLE OF MAN .. p Douglas	45	12,15,16,17,18	34	16th, 17th	44·6	35·2	39·8	− 1·6	7	25	2	0·06	− 0·60	29·7	+ 1·2	37	+ 2	Douglas.
															15·3	—	19	—	Hoylake.
7. — a, ENGLAND, N.W.	p Aspatria	48	12th	29	13th	43·9	32·6	38·1	− 1·5	5	33	4	0·14	− 0·52	29·7	—	37	—	Aspatria.
	p Newton Rigg ..	48	12th	28	13th	42·0	31·6	36·7	− 2·1	0	37	7	0·46	− 0·13	21·4	− 2·4	26	− 3	Newton Rigg.
	p Stonyhurst	45	16th	34	14th, 15th	42·1	35·2	38·6	− 1·2	0	24	5	0·34	− 0·47	20·3	− 2·7	25	− 3	Stonyhurst.
	p Blackpool .. M	47	16th	34	13th, 17th	44·4	35·3	39·7	− 1·0	7	24	3	0·14	− 0·40	27·0	+ 3·6	33	+ 4	Blackpool.
	p M'nch'ster, Prestwich	50	18th	29	13th	44·2	32·9	38·4	− 2·0	6	32	6	0·33	− 0·24	*14·6*	− *3·2*	*18*	− *4*	*Prestwick.*
	a Liverpool (Bidston)	45	12th, 16th	34	13th, 16th	43·7	35·6	39·5	− 2·9	5	23	4	0·41	− 0·01	*15·7*	—	*19*	—	*Liverpool.*
	a Hawarden Bridge ..	47	17th	33	17th	44·6	35·9	40·1	− 2·2	7	22	3	0·29	− 0·05	*21·0*	− *3·3*	*26*	− *4*	*Southport.*
															16·6	—	*21*	—	*Rhyl.*
	b, NORTH WALES .. p Llandudno .. M	46	17th	37	12th, 17th	43·4	38·0	40·6	− 1·9	4	14	2	0·54	+ 0·04	14·4	− 10·0	18	− 12	Llandudno.
	a Holyhead	45	17th	35	14th	43·7	37·7	40·6	− 1·8	5	16	5	0·50	− 0·08	23·7	—	29	—	Aberdovey.
	p Bettws-y-Coed ..	46	17th	30	17th	43·7	35·1	39·3	− 2·8	5	25	5	0·60	—	13·1	—	16	—	Bettws-y-Coed.
															26·9	—	33	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	45	16th	22	17th	42·7	27·7	35·0	− 5·0	2	49	5	0·68	—	21·5	—	27	—	Llangammarch Wells.
	a Pembroke	47	16th	32	13th, 15th	45·0	34·6	39·7	− 2·8	8	27	7	1·20	+ 0·69	20·8	− 7·5	26	− 9	Pembroke.
	p Cardiff	45	13, 15, 16, 17	29	17th	44·2	32·4	38·1	− 4·3	6	34	2	0·63	− 0·06	*28·1*	—	*35*	—	*Cardiff.*
															23·7	− *6·5*	*29*	− *8*	*Tenby.*
	a Clifton	46	16th, 17th	30	17th	44·7	34·2	39·3	− 2·5	8	28	3	0·80	+ 0·28	*23·2*	—	*29*	—	*Clifton.*
	a Shaftesbury .. M	43	12, 15, 16th	30	13, 14, 15th	41·6	31·1	36·2	− 3·9	0	41	5	0·86	+ 0·35	*	*	*	*	* *
	a Arlington	45	16th	27	17th	43·3	32·6	37·8	− 2·8	4	33	1	0·80	− 0·06	25·8	− 3·4	32	− 4	Newquay.
	b, ENGLAND, S.W. .. a Cullompton .. M	48	16th	24	17th	45·8	31·8	38·6	− 3·6	11	37	5	1·02	+ 0·45	27·9	+ 1·6	34	+ 2	Cullompton.
	a Portland Bill ..	46	12, 13, 16th	34	13th	45·1	37·3	41·1	− 1·6	9	18	4	1·18	—	*33·7*	—	*42*	—	*Weymouth.*
	p Plymouth	48	16th	30	17th	45·4	34·9	40·0	− 3·5	10	26	7	1·63	+ 1·03	31·4	+ 2·7	39	+ 3	Plymouth.
	p Falmouth	49	18th	35	17th	45·6	37·5	41·4	− 2·6	10	17	6	1·78	+ 1·05	30·9	+ 0·7	38	+ 1	Falmouth.
															34·9	—	*43*	—	*Salcombe.*
															32·1	+ *1·7*	*40*	+ *2*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	45	12, 16, 17th	37	13, 14, 17th	44·0	37·7	40·8	− 0·6	6	16	4	0·08	− 0·42	*	*	*	*	* *
	a Blacksod Point ..	48	14th	33	16th	45·9	36·9	41·3	− 1·9	11	20	3	0·31	− 0·56	*	*	*	*	* *
	p Markree Castle ..	49	16th	25	16th	46·9	32·2	39·3	− 1·8	14	36	2	0·13	− 0·59	39·0	+ 16·1	48	+ 20	Markree Castle.
	a Birr Castle	48	14th	28	17th	45·9	31·9	38·7	− 2·7	11	37	3	0·12	− 0·41	*31·7*	+ *7·5*	*39*	+ *9*	*Birr Castle.*
	b, East. p Armagh	51	12th	29	17th	46·9	31·7	39·1	− 2·0	14	38	4	0·10	− 0·40	25·9	+ 3·4	32	+ 4	Armagh.
	a Donaghadee	47	12th	35	12th	44·9	38·4	41·6	− 0·3	8	14	2	0·03	− 0·46	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	47	15th	32	14, 15, 17th	45·7	34·0	39·7	− 3·5	10	30	4	0·17	− 0·26	27·5	+ 0·7	34	+ 1	Phœnix Park.
	a Kilkenny	47	14th	28	17th	45·0	33·3	39·0	− 3·0	8	32	2	0·24	− 0·26	*	*	*	*	* *
	a Waterford	49	14th, 16th	30	17th	46·1	34·1	39·9	− 2·9	11	29	4	0·67	+ 0·05	*	*	*	*	* *
	a Birr Castle	48	14th	28	17th	45·9	31·9	38·7	− 2·7	11	37	3	0·12	− 0·41	31·7	+ 7·5	39	+ 9	Birr Castle.
	a Foynes	47	14, 15, 17th	30	17th	45·9	35·5	40·6	− 2·7	11	25	4	0·11	− 0·52	*	*	*	*	* *
	b, West. a Cahir .. .. M	48	14th	29	17th	45·4	34·2	39·6	− 2·9	10	28	4	0·26	—	*	*	*	*	* *
	a Killarney	54	14th	29	16th	48·7	34·9	41·6	− 2·5	19	28	5	0·59	− 0·46	*	*	*	*	* *
	a Valencia	49	12, 14, 16th	30	17th	47·4	37·4	42·3	− 2·4	21	13	5	0·45	− 0·58	30·2	+ 2·9	37	+ 4	Valencia.
	a Roche's Point ..	49	14th, 16th	36	14, 16, 17th	46·7	37·7	42·1	− 1·9	19	12	5	1·46	+ 0·81	35·3	—	44	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	51	18th	36	14th, 17th	47·9	37·9	42·8	− 2·7	23	11	7	1·88	+ 1·34	28·6	− 2·0	35	− 3	Scilly.
	a Jersey, St. Aubins ..	52	18th	31	17th	47·9	36·6	42·1	− 2·4	23	15	7	1·09	+ 0·58	33·3	+ 0·9	41	+ 1	St. Heliers.
	a Guernsey	54	18th	32	17th	48·1	37·8	42·8	− 1·9	23	12	7	1·12	+ 0·56	34·4	+ 2·4	43	+ 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 20·1 hrs.* (− *8·7 hrs.*), *25* % (− *11* %); *Bournemouth, 35·9 hrs., 43* %; *Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	36·7	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·2
	Crathes	4	24	37·8	39·5
	Balmoral	6	27	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	2	25	37·3	—
2.	Cockle Park	6	24	37·3	40·3
	Durham	4	23	—	—
	York	—	—	40·4	42·5
	Hull	4	25	39·3	42·0
	Lincoln	—	—	38·5	41·9
	Rauceby	7	23	40·3	43·2
3.	Norwich	6	22	—	—
	Yarmouth	—	—	39·4	43·7
	Lowestoft	3	27	40·3	42·6
	Cambridge	6	24	39·9	43·3
	Clacton-on-Sea ..	6	22	41·5	44·7
	Southend	6	24	40·3	—
	Tottenham	2	26	—	43·9

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	5	24	39·3	41·2
	Huddersfield ..	3	27	39·2	41·6
	Buxton	5	23	38·2	41·8
	Sheffield	6	26	38·8	41·8
	Nottingham.. ..	5	27	37·9	40·9
	Birmingham.. ..	7	26	38·4	43·7
	Oxford	5	23	—	—
	Hereford	6	22	—	—
	Cirencester	5	24	40·5	43·1
	Bath	—	—	—	—
5.	Margate	—	—	41·3	43·2
	Greenwich	4	22	—	—
	Westminster ..	3	24	—	—
	Kew	3	20	39·7	43·8
	Canterbury	2	29	40·7	44·8
	Tunbridge Wells ..	4	24	39·2	—
	Wisley	4	23	38·8	42·9
	Worthing	3	24	40·8	44·3
	Portsmouth	4	20	41·8	44·8
6.	Glasgow	3	28	—	—
	Rothesay	—	—	—	42·8
	Colmonell	2	28	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	6	24	38·6	42·0
	Douglas	1	28	—	—
7.	Aspatria	4	20	40·1	43·2
	Newton Rigg ..	5	19	39·9	41·4
	Burnley	5	22	38·0	41·8
	Southport	5	22	39·2	42·5
	Manchester City ..	1	29	38·7	43·7
	Bettws-y-Coed ..	1	30	40·1	44·0
8.	Llangammarch Wells	7	11	39·4	43·9
	Cardiff	6	22	39·7	43·5
	Clifton	6	25	—	—
	Plymouth	6	18	41·9	—
9.	Armagh	5	21	41·3	44·1
	Markree	5	20	42·6	44·9
10.	Dublin, Trin. Coll. ..	5	23	41·3	44·7
11.	Guernsey, Brooklyn	2	20	43·7	46·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	41	38	39·9
	Wick	?	?	?
SCOTLAND, E.	Cromarty	40	37	37·8
	Pennan Bay	40	39	39·5
	Aberdeen, Cove Bay ..	42	41	41·4
ENGLAND, N.E.	Burnmouth, Berwick ..	39	38	38·5
	Scarborough	44	40	41·9
ENGLAND, E.	Shipwash Lightship ..	43	40	41·4
	Margate‡	43	40	42·0
ENGLAND, S.E.	Eastbourne‡	45	43	44·0

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	45	44	44·1
	Ballantrae	43	43	43·0
ENGLAND, N.W.	Port Erin	45	42	43·7
	Newquay	47	46	46·7
ENGLAND, S.W.	Scilly	47	45	45·8
	Plymouth‡	46	45	45·4
	Salcombe	46	44	45·2
IRELAND, N.W.	Sheephaven	46	45	45·8
	Teelin	47	42	45·1
IRELAND, S.W.	Cleggan	45	43	44·4
	Seafield	48	44	45·7
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR FEBRUARY, 1911.

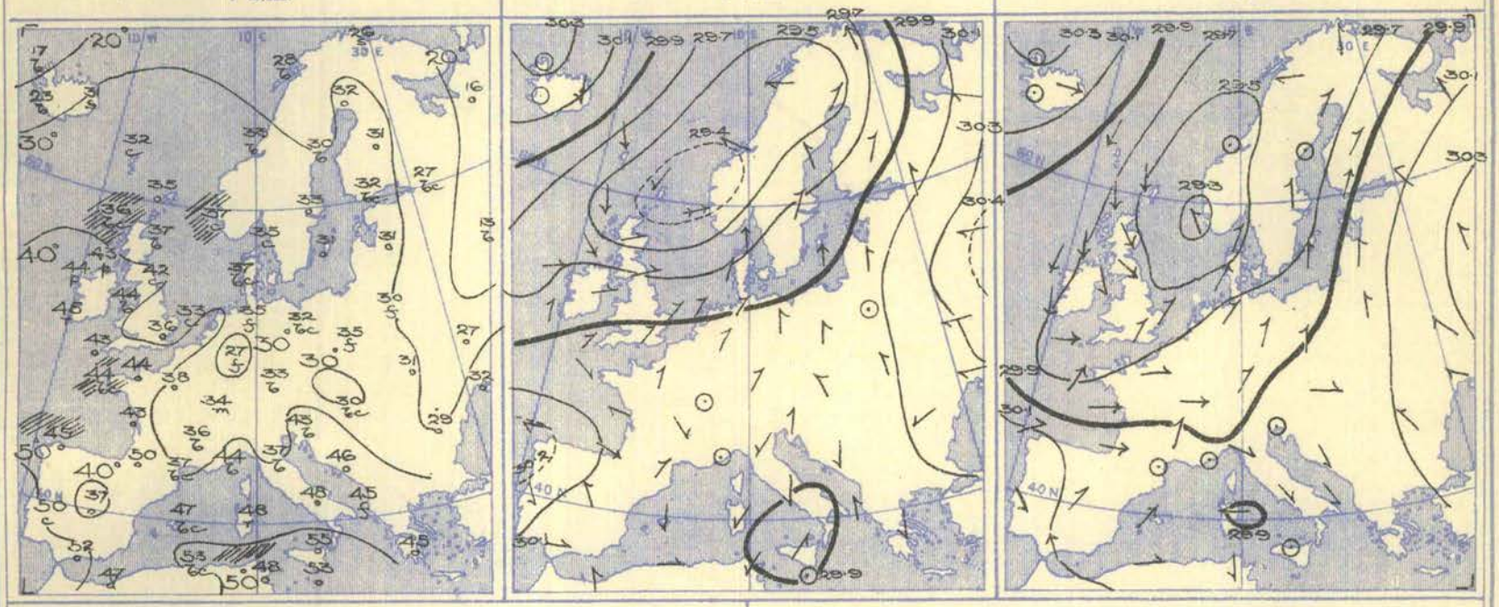
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
Station Values.—Additions.		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 5, p. 43	Hereford.. .. ℳ	43	30th	—	—	? 39·6	—	? 33·7	−4·8	0	58	—	—	—	—	—	—	—
No. 6, p. 51	Hereford.. .. ℳ	46	11th	—	—	? 40·4	—	? 36·4	−2·5	0	39	—	—	—	—	—	—	—
No. 9, p. 75	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	22·8	—	31	—
No. 9, p. 75	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	24·8	—	33	—
Station Values.—Corrections.																		
No. 5, p. 43	Llangammarch Wells..	—	—	—	—	—	23·5	31·6	−6·2	—	73	—	—	—	—	—	—	—
No. 6, p. 51	Blackpool	42	—	—	—	40·0	—	36·6	−2·1	—	38	—	—	—	—	—	—	—
No. 6, p. 51	Llandudno	—	—	—	—	—	—	—	—	—	—	1	0·07	−0·45	—	—	—	—
No. 7, p. 59	Newcastle	—	—	—	—	—	—	—	—	—	—	—	—	—	14·5	+2·7	22	+ 4
No. 7, p. 59	York	—	—	—	—	—	—	—	—	—	—	4	0·26	−0·13	13·8	−0·2	21	0
No. 7, p. 59	Fulbeck	55	18th	26	—	48·8	36·4	42·6	+4·0	28	16	—	—	—	—	—	—	—
No. 7, p. 59	Raunds .. .. ℳ	—	—	—	—	—	36·0	43·2	+4·8	34	17	—	—	—	—	—	—	—
No. 7, p. 59	Bath	—	—	—	—	—	37·1	43·9	+3·7	34	14	—	—	—	—	—	—	—
No. 7, p. 59	Wisley	—	—	—	—	—	35·4	42·4	+2·6	31	18	—	—	—	—	—	—	—
No. 7, p. 59	Swarraton .. ℳ	—	—	—	—	—	31·5	40·0	+1·5	—	41	—	—	—	—	—	—	—
No. 7, p. 59	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	11·0	−7·5	16	−11
No. 7, p. 59	Clifton..	—	—	—	—	—	—	—	—	—	—	—	—	—	15·4	—	23	—
No. 8, p. 67	Sumburgh Head ..	—	—	—	—	—	31·0	37·5	−0·7	—	40	—	—	—	—	—	—	—
No. 8, p. 67	Lincoln	—	—	—	—	—	—	—	—	—	—	—	0·43	+0·06	—	—	—	—
No. 8, p. 67	Fulbeck	55	25th	—	—	49·9	—	43·8	+4·5	31	—	—	—	—	—	—	—	—
No. 8, p. 67	Swarraton .. ℳ	—	—	—	—	—	38·0	43·8	+4·8	—	11	—	—	—	—	—	—	—
No. 9, p. 75	Glasgow	—	—	—	—	48·6	—	43·2	+3·9	25	—	—	—	—	—	—	—	—
Station Values.—Additions.																Mean Earth Temp. At 1 foot.	At 4 feet.	
No. 9, p. 76	Bath															44·5	43·3	

Sunday, 12th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning raining in Ireland and at Pembroke, and very cloudy or overcast over most other parts of the United Kingdom and the adjacent part of the Continent and at several stations in central Europe and Russia. Fair to bright over a large area over the Mediterranean region, but rain falling at Cagliari and San Fernando. Rain extending to Great Britain, France, the Netherlands and Denmark later; between 0·7 in. and 1·0 in. falling in the South and South-East of England and the north of France, and 0·9 ins. at Fanö.

Temperature changed rather irregularly, but fallen in most regions. Morning readings above 50° at various places in the far south; 32° or below in some German localities and over a large area in northern and eastern Europe, and as low as 13° at Moscow. Remaining below 40° throughout the day in some parts of Scotland, but rising to above 45° in most British localities, and touching 50° at North Shields. Maxima slightly exceeding 60° at many stations on the shores of the Mediterranean and at Madrid.

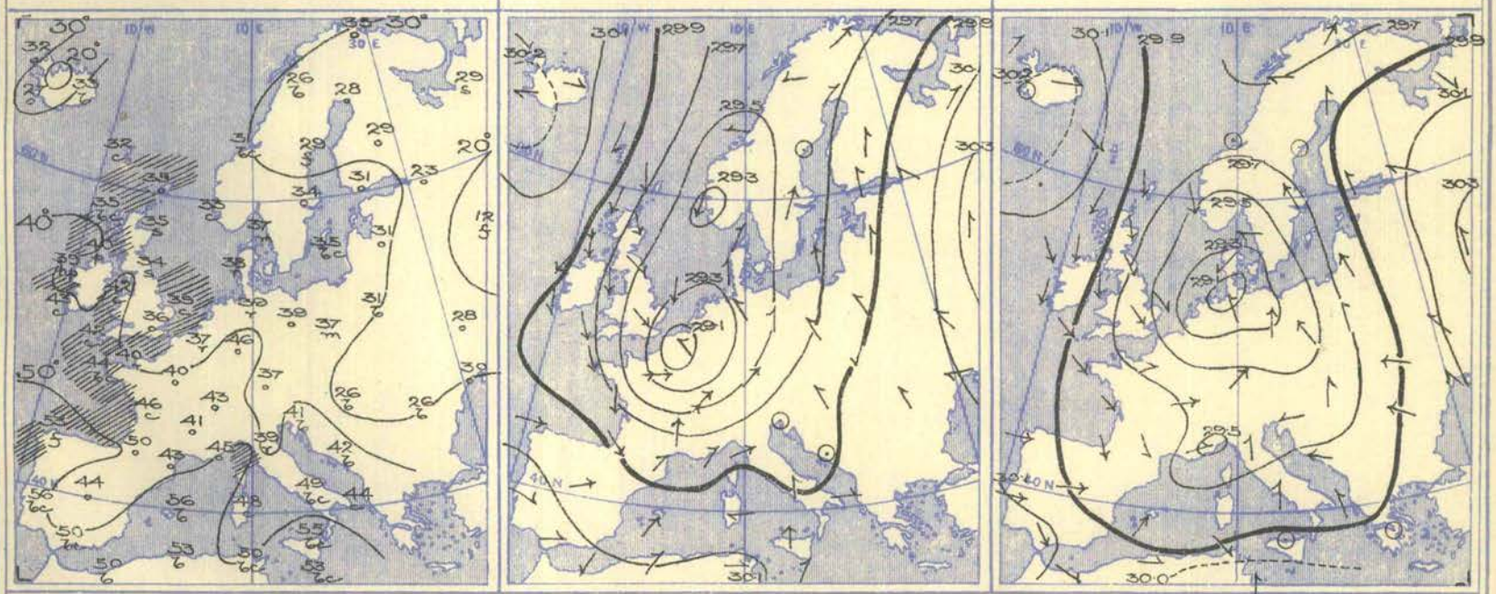
Wind in morning showing a complex cyclonic movement over the north-western countries, the South-West current blowing a moderate breeze in Ireland and England and a gale on the south-west coast of Norway. Light and rather variable airs prevailing in central and southern Europe. Veering to North during day in Ireland and increasing in force, and gaining greatly in force from the South-West on the English Channel. Increasing in strength at a few Mediterranean stations—to a strong breeze at Palma.

Barometer in morning above 30·4 in. in central Russia and also in the Azores, and above 30·3 in. in the North-West of Iceland. Below 29·9 in. in a shallow depression over Sicily and its vicinity, and below 29·4 in. in a large system having its chief minimum between Shetland and Norway. Another disturbance reaching the South-West of England by evening and travelling eastward during night. Pressure continuing to increase over the Icelandic region.

Monday, 13th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning very unsettled over these Islands and the western countries of the Continent, with much cloud generally, and rain, sleet, or snow in many places. Overcast, but dry, at the Russian and Finnish stations, and variable over the south of Europe; rainy at Lugano and Florence, and also at Oporto. Fine and bright in Algeria. Precipitation becoming general later over the United Kingdom and its neighbourhood, and also in large areas in the South and North of the Continent; measurements about an inch at some stations in the Low countries.

Temperature fallen in this country and northern Europe, risen in most other regions. Morning readings rather above 50° at some places in the south of our area, but only 38° at Rome. Below 40° very generally over this country and the greater part of the European mainland, and below 20° in central Russia. Maxima during day below 45° at nearly all our own stations and the Netherlands, and very little above it in central Europe and the north of Italy; above 55° at many places in the South, above 60° in Algeria and Spain, and as high as 70° at Malaga.

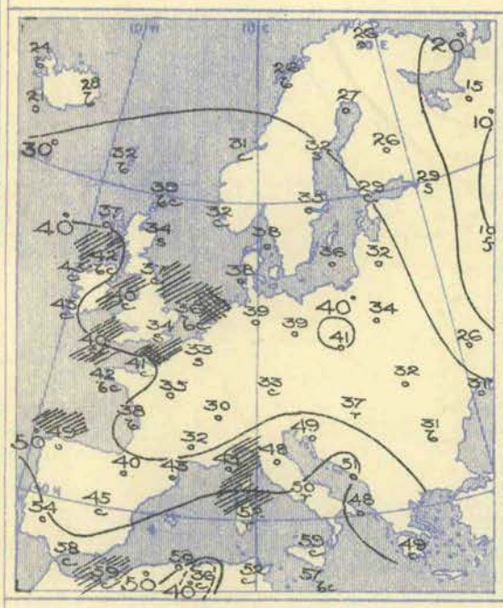
Wind in morning showing a cyclonic movement over nearly the whole of our area. The Northerly current fresh to high over these Islands and northern France, and blowing a gale at Dover and Havre. A gale from West prevailing at Paris and from South-West at Belfast, but Southerly current over Germany and the Baltic having little force. Decreasing somewhat later in many parts of these Islands and France, but increasing from North-West in Holland and from the South-East in North Germany.

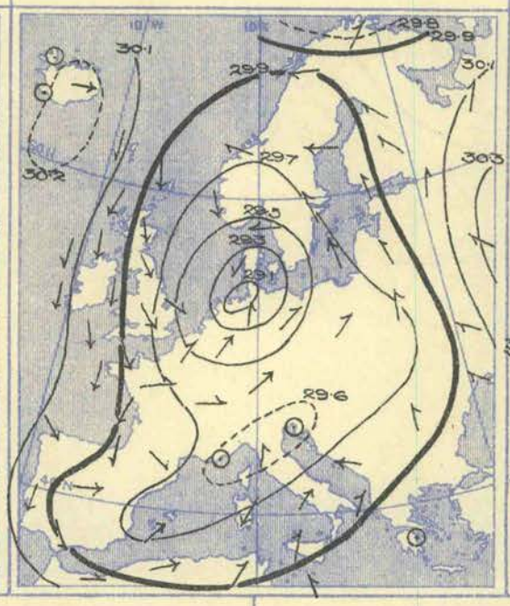
Barometer in morning above 30·3 in. in central Russia, above 30·4 in. in the Azores, and about 30·2 in. in the west of Iceland. Below 29·3 in. in a small minimum over the south-west of Norway, and below 29·1 in. in a more important depression over the Netherlands. Latter travelling East West-Eastwards during day without losing intensity, and pressure increasing decidedly over these Islands and the north of France. A small disturbance forming in the South-East of France by evening.

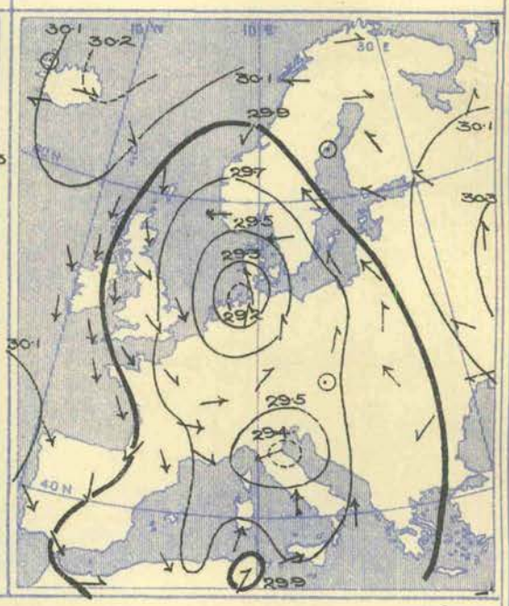
Tuesday, 14th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning still unsettled, with much cloud over the United Kingdom and the adjacent countries of the Continent. Snow or hail falling in various parts of Great Britain, and rain or snow in the Low countries. Snow prevailing at some stations in the North of our area, and rain in Hungary and at some places in the Mediterranean region. Slight to moderate falls of rain, sleet, or snow in most parts of these Islands later, and large quantities of rain in central and southern Europe; about 0·7 in. at Rome and Trieste, and 0·6 in. at Nice.

Temperature fallen generally, risen on many shores of the Mediterranean. Morning readings ranging from 50° at Palermo and 58° at Algiers to below 35° in some parts of this country and over a wide area on the Continent, to below 20° in the north of Russia, and to 10° at Moscow. Maxima during day about 70° in Algeria and Sicily, 66° at Malaga, and 63° at Monaco. Below 50° in most parts of central Europe and France, and below 45° at almost all our own stations. Slight frost at night in various parts of England.

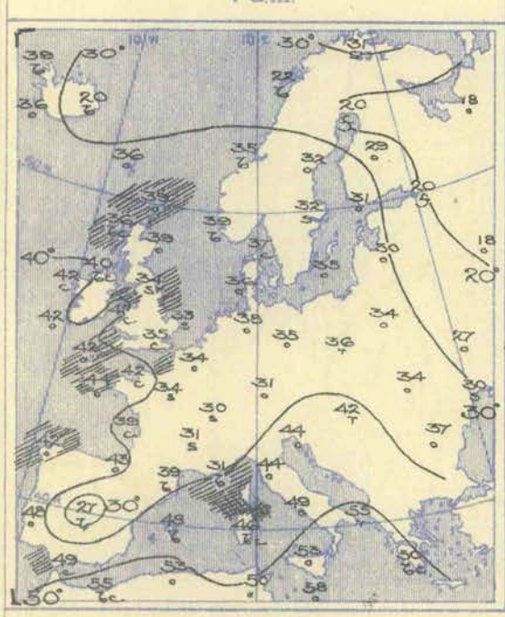
Wind in morning cyclonic except over Russia and the Icelandic region. Fresh to high from the Northward over these Islands generally and blowing a whole gale at Spurn Head; moderate to strong from the Southward over Germany and the Baltic. Fresh to very strong, mainly from some Westerly point, over the Spanish Peninsula and the Mediterranean. No change of importance occurring during day.

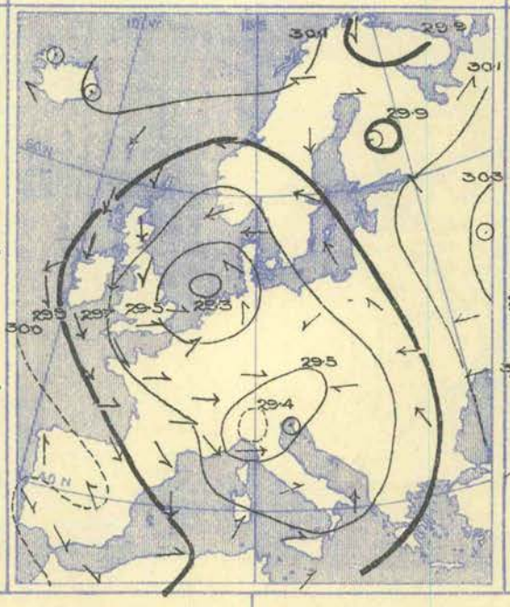
Barometer in morning above 30·3 in. in central Russia, and nearly as high in Iceland; below 29·6 in. over the north of Italy and its neighbourhood, and below 29·1 in. in a well marked system centred near the mouth of the Elbe. Latter undergoing scarcely any change in depth or position during day, but moving westwards at night. Italian depression growing deeper and the gradient surrounding increasing considerably.

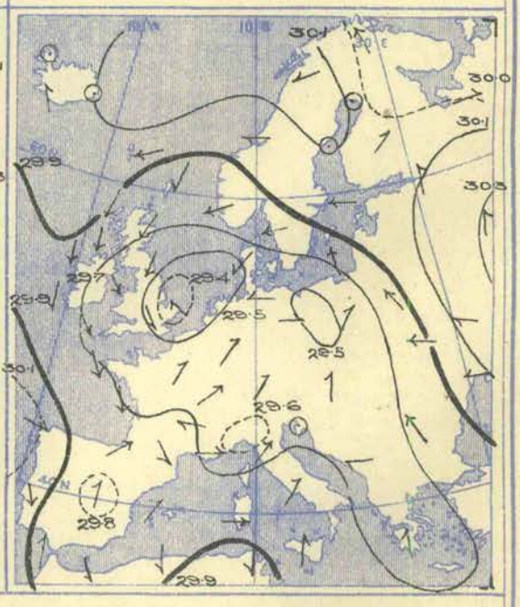
Wednesday, 15th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning still unsettled, with much cloud over all the western and north-western regions, snow falling in various parts of England, France, Germany, and Scandinavia. Fair or fine over a large area in the south, but rainy at Cape de Garde, Brindisi, and Casablanca. Some rain, sleet, or snow later in various parts of these Islands and their neighbourhood, and also in some districts in central Europe, Italy, and Algeria.

Temperature showing no decided change. Morning readings ranging from 61° at Sfax and above 50° at a few other places in the far south to below 35° over the major portion of our area, and to below 20° in Russia and the north of Finland. Maxima during day below 40° at some places in the south-east of England, and below 45° over much of the United Kingdom and northern and central Europe, as well as at Florence. Above 60° at a few stations on the shores of the Mediterranean.

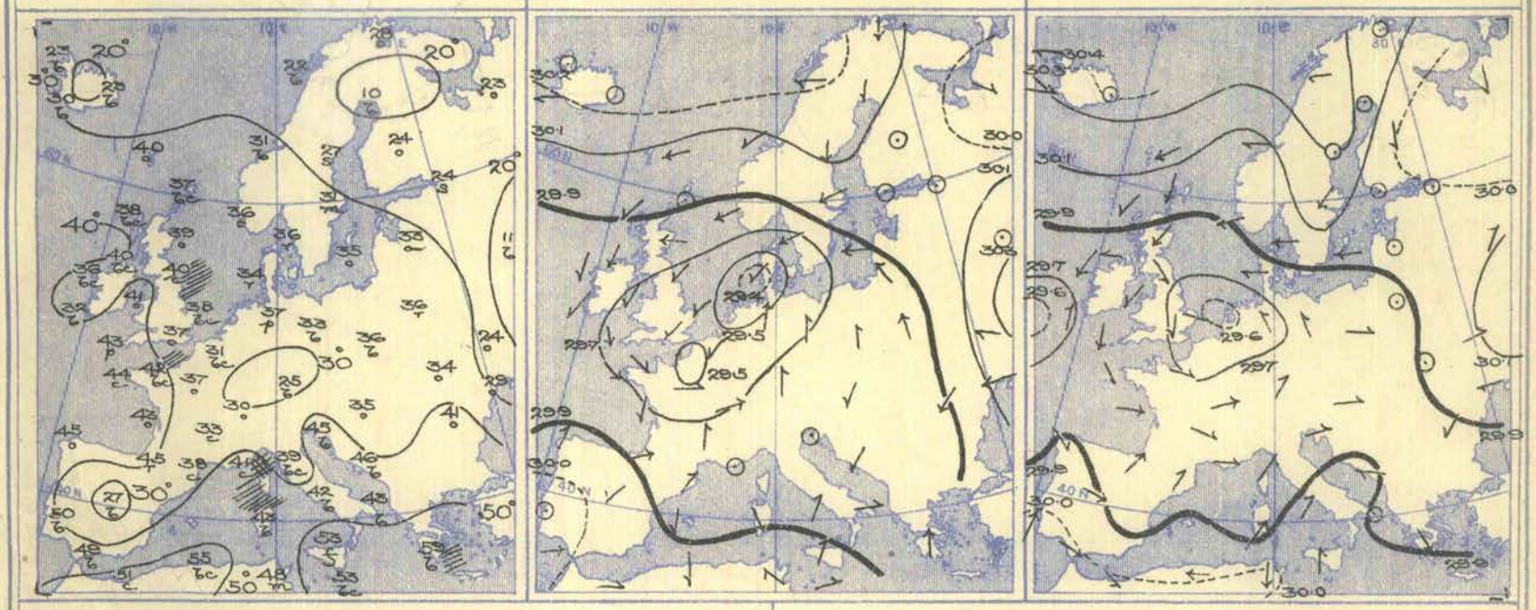
Wind in morning cyclonic generally, the chief movement being over the western countries. Northerly current fresh to strong or high over the United Kingdom. No great force over the European mainland, but Westerly wind fresh to strong on some shores of the Mediterranean. Decreasing somewhat in force later in most parts of this country, but changing little in direction. Continuing strong from South-West at Leghorn and increasing to a strong breeze from the South-Westward at Biarritz.

Barometer in morning above 30·3 in. in central Russia and nearly as high in Iceland and the Azores. Below 29·4 in. in a depression over the North Sea and in another over the north of Italy, and below 29·9 in. in another over Lapland. North Sea depression moving slowly in a south-westerly direction during day and night and pressure giving way throughout these Islands. A new disturbance developing over Germany and Denmark. A depression forming over Greece by evening.

Thursday, 16th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to bright in Ireland and the Hebrides and also over the major portion of southern Europe and the Mediterranean. Very cloudy or overcast in most other regions with rain or snow in places over a wide area. A little precipitation later in many parts of these Islands and over a considerable area in the southern half of Europe and in Algeria, and as much as an inch at Florence.

Temperature changed rather irregularly, but fallen in most localities. Morning readings ranging from 59° at Athens, 55° at Algiers, and 53° at Malta and Palermo to below 35° over the greater part of our area, to below 32° in various districts, and to below 20° in central Russia and the north of Sweden. Maxima during day below 45° in several parts of this country, the east of France, and central Europe, but thermometer rising to 60° or above in many southern localities, and touching 66° at Malaga. Frost at night in England and Ireland. Temperature falling to 21° on the grass at Kew Observatory.

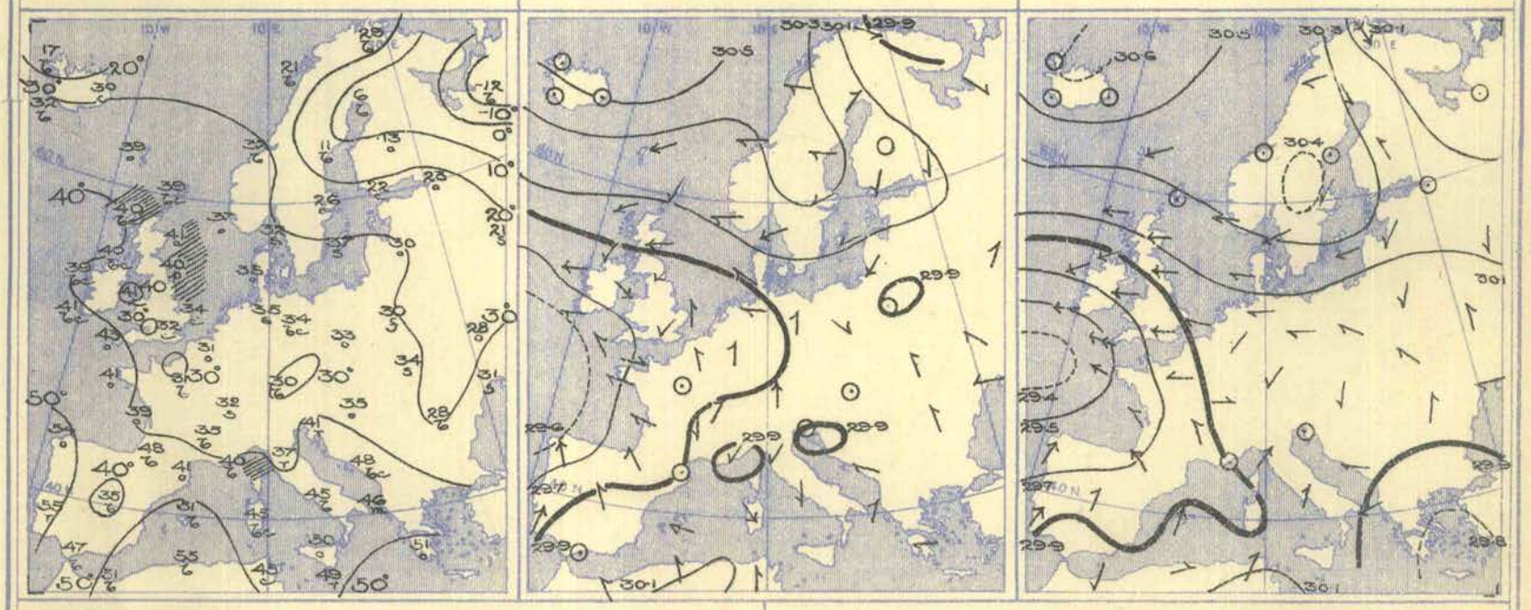
Wind in morning mainly cyclonic, the North-Easterly current blowing very strongly in the south of Scandinavia, and with moderate force in most parts of these Islands. Wind more variable and generally lighter over the Mediterranean region, but strong from South-West at Leghorn and from South at Athens. Little change later; wind falling light and veering to the Northward at Athens.

Barometer in morning ranging from above 30·2 in. over a large portion of Russia and in Iceland to below 29·5 in. in a small minimum over the north-east of France, and to below 29·4 in. in another over Schleswig. A third depression existing on the Atlantic off Ireland in about longitude 18°. German depression moving towards this country latter but decreasing slightly in intensity. Atlantic disturbance approaching nearer to Ireland and beginning to affect the barometer on the west coast. Pressure increasing still further in the extreme north of our area.

Friday, 17th March, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in the north of England and Portugal, and snow falling in places in Gothland, Russia, and central Europe. A good deal of cloud prevailing over our area generally, but conditions fair or fine in most parts of Scandinavia and at many stations in the Mediterranean region. Rainy at Trieste, Florence, and Malta. Slight rain later in some British localities and about 0·6 in. at Scilly; considerable amounts over a very wide area on the Continent; 0·4 in. in the north of France, at Corunna, and Florence, and 0·75 in. at Nice. As much as 0·6 in. of snow at Moscow.

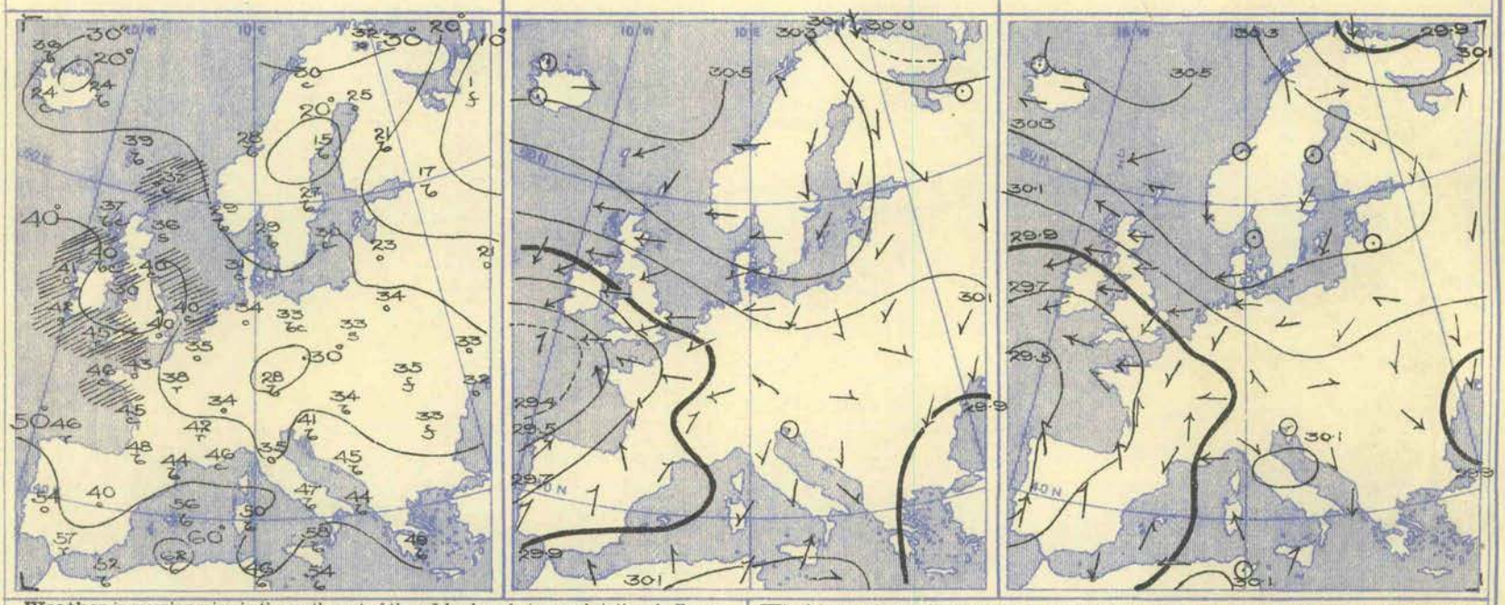
Temperature fallen over the greater part of our area. Morning readings ranging from about 50° at various places in the south to 32° or below in some parts of this country and over a wide area on the Continent to zero in the north of Finland, and to 12° below zero at Archangel. Maxima during day about 45° over a large portion of these Islands, France, and central Europe; about 60° in the Spanish Peninsula and over a large area on the Mediterranean, and above 65° at Patras and at some stations on the coast of Algeria.

Wind in morning strong or high from the Southward in Portugal, moderate to fresh or strong from between East and North-East in the north and north-west of these Islands. A strong breeze from the Westward prevailing at Vardö, and fresh breezes from the Eastward over the Baltic. Light, variable breezes general over the east and south of our area. Increasing to a gale from the Eastward later at Scilly, and to a strong breeze in the south-west generally. A strong gale from the North-Westward setting in at Vardö.

Barometer in morning above 30·5 in. in Iceland; below 29·7 in. in a shallow depression over England and relatively low in some other disturbances on the Continent; below 29·4 in. in a depression some distance to the south-west of these Islands. Atlantic disturbance extending towards this country during day, and gradient increasing gradually. English depression disappearing by evening. Barometric rise in Iceland continuing slowly.

Saturday, 18th March, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.



Weather in morning rainy in the south-west of these Islands and at several stations in France, as well as at Corunna and Malaga: cloudy or dull in most parts of Great Britain, with snow at Aberdeen. Much cloud, with snow in places, prevailing in central Europe, but generally bright weather both in the south and north. Some rain later in most parts of the United Kingdom, as much as 0·4 in. at Scilly, and 0·9 in. at Roche's Point. Rather heavy snow in the extreme south of Russia, moderate or small amounts of rain in some central and northern districts of the Continent, and about 1·0 in. at Malaga.

Temperature showing no decided change over a large area. Morning readings ranging from 62° at Algiers, 59° at Barcelona, and 58° at Palermo to below 40° over most of the European mainland and at many of our own stations, to below 20° over a wide district in the north-east of Europe, and to 1° at Archangel. Rising to about 50° during day in the extreme south-west of England, but remaining below 45° over these Islands generally, as well as in the Netherlands and over a large portion of central Europe. Rising to 66° at Leghorn, 68° at Palermo, Bilbao, and Barcelona, and to 75° at Algiers.

Wind in morning moderate to strong from the Eastward over these Islands, and blowing a gale at Portland Bill and Donaghadee; strong from South-West at Corunna, and moderate or light from South over the Bay of Biscay. Light and somewhat variable in most other regions, but a gale from the Northward prevailing at Vardö. Increasing to gale force later at Spurn Head and Blacksod Point, and to a high wind on some other parts of our coast. Little change occurring on the Continent.

Barometer in morning below 29·4 in. in a depression off the south-west of this country, and relatively low both in the south-east and north-east of Europe. Above 30·5 in. in a large area over Iceland and its neighbourhood. No material change taking place during day in the general distribution; pressure increasing somewhat over this country, and decreasing a little in Iceland.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

97

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 12. TWELFTH WEEK, SUNDAY, MARCH 19TH, TO SATURDAY, MARCH 25TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. As a whole the conditions were drier in the north and west of these islands than in the south and south-east, especially in Ireland, Scotland and the north-west of England. Showers and squalls of snow were experienced in most localities in Great Britain late in the week. Thunderstorms occurred on Wednesday at many places in the extreme south-east of England and also at a few stations in our southern counties.

Temperature was above the average in England S.E. and the English Channel, but below it over the Kingdom generally, the greatest difference being – 3°3 in Scotland E. The highest temperatures of the week at different places were recorded on the 22nd in most English localities, on the 24th in Scotland, and early in the week in Ireland. They ranged from 63° in England E. and 62° in England S.E. and the English Channel to 40° in Ireland N. and to 44° in Scotland E. Both early and late in the week the thermometer remained below 45° over a very wide area in Great Britain. The lowest of the minima occurred on the 25th over the major portion of England, but on irregular dates elsewhere, and varied from 22° to 24° in Scotland, from 26° to 32° in England, and from 30° to 31° in Ireland, while the lowest reading in the English Channel was 38°. On the grass the minima were 18° at Balmoral, 19° at Llangammarch Wells, 20° at Colmonell, 21° at Crathes and Newton Rigg, and 24° at Markree.

Mean Temperature of the Sea. At all the stations except Aberdeen the water was colder than during the corresponding week of last year the difference being rather slight generally, but as much as 5° at Cromarty. The mean for the week varied from 47° at Scilly and Newquay, and 46° at Plymouth and Seafield to 38° at Burnmouth and Cromarty.

Rainfall slightly exceeded the average in England E. and S.E., but was less elsewhere. In Scotland W. and Ireland N. the weather was rainless, and in Scotland N. and England N.W. the total fall was less than 0·05 in.

Bright Sunshine varied greatly in different localities, but over the major part of the Kingdom it was below the normal. The percentage of the possible duration ranged from 40 in England S.E., 39 in Scotland N., and the English Channel, and 38 in England E. to 21 in England N.E., and to 18 in the Midland Counties.

Barometer and Wind. The type of pressure distribution was Easterly to North-Easterly throughout, a depression existing to the south-westward or southward of these Islands, and an anticyclone to the north-eastward or northward. The wind was fresh or strong to a gale both at the beginning and the end of the period, but moderate or light during the intervening days. The gales at the end of the week were restricted to the east and south of England and the adjacent portions of the Continent, the wind continuing light or moderate in Scotland, Ireland, and the north-west of England.

THE WEEK

For explanation of the terms "Unusual," &c., *see* p. 100.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Very light	Light	Moderate	Moderate	Moderate	Nought	Very light	Light	Nought	Light	Moderate
	Sunshine ...	Abundant	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 3 weeks from Mar. 5th, 1911.	Warmth ...	0 * 1	0 * 1	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 0	0 * 2	0 * 0
	Rainfall ...	1 * 2	1 * 1	1 * 2	1 * 0	1 * 0	1 * 0	0 * 2	0 * 1	2 * 1	0 * 2	1 * 1	2 * 0
	Sunshine ...	3 * 0	1 * 1	0 * 2	0 * 1	0 * 2	0 * 2	2 * 0	1 * 0	0 * 1	2 * 0	2 * 0	0 * 0

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

9509 / 450 Wy. & S., Ltd. 3—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	TWELFTH WEEK—March 19th to March 25th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	22	44·5	31·8	38·0	− 2·0	7	− 7	36	+ 8	1	− 5	0·03	−1·00	33	+ 10	39	+12
Eastern																		
1. SCOTLAND, EAST	49	22	41·8	32·2	36·9	− 3·3	0	− 20	36	+ 5	2	− 2	0·09	−0·43	18	− 9	22	−11
2. ENGLAND, N.E.	55	31	43·0	36·1	39·5	− 1·8	3	− 19	21	− 4	3	− 1	0·12	−0·25	18	− 12	21	−15
3. ENGLAND, EAST	63	26	46·8	36·5	41·5	− 0·3	13	− 15	22	− 5	4	0	0·45	+0·08	32	+ 2	38	+ 2
4. MIDLAND COUNTIES	59	31	45·8	35·9	40·7	− 1·1	11	− 17	23	− 4	3	0	0·31	−0·06	15	− 12	18	−14
5. ENGLAND, S.E.	62	31	50·0	38·7	44·2	+ 1·3	29	+ 1	9	−11	4	+ 1	0·48	+0·08	34	+ 4	40	+ 5
Western																		
6. SCOTLAND, WEST	55	24	46·2	33·9	39·9	− 1·6	12	− 8	30	+ 8	0	− 5	0·00	−0·80	25	− 2	30	− 2
7. ENGLAND, N.W.	54	26	45·9	35·6	40·6	− 1·3	11	− 10	24	+ 4	2	− 1	0·04	−0·49	28	+ 1	33	+ 1
8 ENGLAND, S.W.	57	32	47·8	38·0	42·7	− 0·6	22	− 5	11	− 5	3	0	0·25	−0·33	21	− 9	26	−11
9. IRELAND, NORTH	51	30	46·8	36·5	41·4	− 1·0	13	− 10	21	+ 2	0	− 4	0·00	−0·62	30	+ 5	36	+ 6
10. IRELAND, SOUTH	56	31	48·7	39·0	43·7	− 0·2	25	− 5	8	− 7	2	− 1	0·11	−0·55	25	− 4	30	− 5
11. ENGLISH CHANNEL	62	38	52·5	42·6	47·4	+ 1·7	38	+ 6	0	− 6	5	+ 1	0·20	−0·27	33	− 3	39	− 4
	THE SEASON (Spring).—Aggregates, &c., for the Period of 3 Weeks, March 5th, to March 25th, 1911.																	
0. SCOTLAND, NORTH	52	22	*	*	*	*	15	− 15	96	+ 2	11	− 5	1·96	−1·16	91§	+30	38	+13
Eastern																		
1. SCOTLAND, EAST	52	22	*	*	*	*	11	− 34	102	− 1	13	+ 1	1·30	−0·29	77	+ 5	32	+ 2
2. ENGLAND, N.E.	55	28	*	*	*	*	18	− 37	81	− 2	14	+ 3	1·37	+0·16	62	−20	26	− 8
3. ENGLAND, EAST	63	26	*	*	*	*	31	− 38	86	− 3	15	+ 5	1·90	+0·86	67	15	28	− 6
4. MIDLAND COUNTIES.. ..	59	24	*	*	*	*	27	− 43	88	− 1	12	+ 3	1·32	+0·16	53	−20	22	− 8
5. ENGLAND, S.E.	62	26	*	*	*	*	47	− 24	68	0	13	+ 4	1·80	+0·55	71	− 9	29	− 4
Western																		
6. SCOTLAND, WEST	55	24	*	*	*	*	33	− 14	87	+11	7	− 6	0·62	−1·79	82	+10	34	+ 4
7. ENGLAND, N.W.	54	26	*	*	*	*	27	− 25	72	+ 4	11	0	0·85	−0·75	75	+ 4	31	+ 2
8. ENGLAND, S.W.	57	22	*	*	*	*	41	− 30	65	+ 9	12	+ 1	2·35	+0·53	74	− 8	31	− 3
9. IRELAND, NORTH	52	25	*	*	*	*	39	− 22	73	+ 9	9	− 4	0·64	−1·15	92	+23	38	+10
10. IRELAND, SOUTH	57	26	*	*	*	*	56	− 24	63	+13	12	0	1·56	−0·42	85	+ 6	35	+ 2
11. ENGLISH CHANNEL	62	31	*	*	*	*	85	− 1	24	+ 2	17	+ 5	2·49	+0·97	91	− 8	37	− 4
	THE YEAR.—Aggregates, &c., for the Period of 12 Weeks, January 1st to March 25th, 1911.																	
0. SCOTLAND, NORTH	55	14	*	*	*	*	104	+ 14	315	−109	57	− 5	14·37	+0·29	177§	+ 28	24	+ 4
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	96	− 17	386	− 94	47	0	5·63	−0·95	220	+ 24	29	+ 3
2. ENGLAND, N.E.	58	19	*	*	*	*	142	+ 7	302	− 82	42	− 2	3·88	−0·72	196	− 12	25	− 2
3. ENGLAND, EAST	63	16	*	*	*	*	143	− 16	339	− 89	51	+ 7	5·16	+0·75	214	− 8	27	− 1
4. MIDLAND COUNTIES.. ..	60	14	*	*	*	*	149	− 25	332	− 93	39	− 3	3·89	−1·45	182	− 10	23	− 1
5. ENGLAND, S.E.	62	16	*	*	*	*	150	− 39	295	− 32	42	+ 1	4·92	−0·78	223	+ 9	27	+ 1
Western																		
6. SCOTLAND, WEST	56	18	*	*	*	*	156	+ 20	269	− 69	47	− 6	10·01	−1·25	192	+ 14	25	+ 2
7. ENGLAND, N.W.	58	17	*	*	*	*	138	− 8	256	− 63	43	− 4	6·14	−1·13	201	+ 17	25	+ 2
8. ENGLAND, S.W.	57	13	*	*	*	*	154	− 68	238	− 17	45	− 2	7·32	−1·50	216	− 1	27	0
9. IRELAND, NORTH	58	18	*	*	*	*	192	+ 6	241	− 40	46	− 9	6·04	−2·28	224	+ 37	29	+ 5
10. IRELAND, SOUTH	59	18	*	*	*	*	245	− 21	234	+ 19	49	− 1	6·50	−3·03	224	+ 9	28	+ 1
11. ENGLISH CHANNEL	62	29	*	*	*	*	273	− 32	105	+ 4	50	− 3	5·96	−1·47	249	− 19	30	− 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for Report No. 11 altered owing to the receipt of further information.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	45	23rd, 25th	32	19th	42·6	36·0	39·2	—	2	21	4	0·16	—	16·1	—	19	—	Baltasound.
	a Sumburgh Head ..	47	24th	32	19, 20, 25th	44·1	33·0	38·4	− 0·3	6	32	1	0·05	− 0·62	17·6	− 7·3	21	− 9	Deerness.
	a Stornoway	50	24th	28	21st, 22nd	46·1	32·4	39·1	− 0·9	11	35	2	0·02	− 0·87	50·7	+25·7	60	+31	Stornoway.
	a Castlebay, Barra Isd.	50	21st	36	19th, 20th	46·1	37·6	41·7	− 1·2	11	17	1	0·03	—	54·7	—	65	—	Castlebay.
	a Wick	48	23rd, 25th	28	24th	43·6	33·1	38·2	− 1·7	4	31	3	0·11	− 0·39	*	*	*	*	*
	p Strathpeffer.. ..	47	21st	26	22nd	42·6	31·3	36·8	− 2·5	2	37	0	0·00	− 0·58	25·2	+ 3·3	30	+ 4	Strathpeffer.
	p Glencarron .. S	50	21st	26	22nd	43·3	31·1	37·3	− 1·5	5	38	0	0·00	− 1·70	*	*	*	*	*
	p Fort Augustus S	45	20, 22, 24th	22	22nd	44·0	30·2	36·9	− 2·9	6	41	1	0·02	− 0·76	37·1	+18·4	44	+22	Fort Augustus.
	p Fort William S	52	21st	26	22nd	47·1	31·5	39·1	− 1·9	14	39	0	0·00	− 1·44	*	*	*	*	*
0. SCOTLAND, N. — b, Mainland.	p Gordon Castle S	47	24th	29	23rd	43·2	31·3	37·1	− 3·7	3	37	2	0·15	− 0·35	26·0	—	31	—	Gordon Castle.
	a Nairn	46	24th	24	22nd	43·4	28·0	35·5	− 4·4	4	49	0	0·00	− 0·40	27·5	—	33	—	Nairn.
	a Aberdeen	47	24th	33	24th	42·9	35·4	39·0	− 1·4	3	23	4	0·15	− 0·37	15·2	− 12·8	18	− 15	Aberdeen.
	a Balmoral .. S	44	24th, 25th	22	21st	41·3	28·9	34·9	− 1·3	0	50	1	0·03	− 0·59	14·7	—	18	—	Crathes S.
	p Crieff .. .. S	49	24th	30	24th	41·6	33·0	37·2	− 3·3	0	34	2	0·07	− 0·58	17·1	—	20	—	Balruddery.
	a Leith	47	24th	33	20th	42·6	36·3	39·4	− 2·5	2	20	3	0·05	− 0·27	*	*	*	*	*
1. SCOTLAND, E.	p West Linton.. S	45	24th	30	19th	39·3	32·0	35·5	− 3·0	0	46	3	0·10	—	17·7	—	21	—	West Linton.
	p Marchmont .. S	46	25th	31	19, 24, 25th	40·1	32·6	36·2	− 3·1	0	41	3	0·16	− 0·39	16·2	− 9·1	19	− 11	Marchmont.
	a Alnwick Castle ..	45	24th	33	24th	41·4	35·7	38·5	− 2·0	0	25	4	0·13	− 0·42	17·1	—	20	—	Cockle Park.
2. ENGLAND, N.E. — a, North.	a Shields	47	24th	34	20th	42·0	35·9	38·9	− 2·0	0	22	4	0·10	− 0·31	10·1	− 10·9	12	− 13	Newcastle.
	p Durham	45	24th	34	19th	40·6	35·7	38·1	− 2·1	0	27	2	0·09	− 0·29	16·0	− 16·2	12	− 19	Durham.
	p Rounton .. M	45	20th, 24th	34	25th	42·8	35·3	38·9	− 1·2	2	23	2	0·02	− 0·43	*	*	*	*	*
	p Scarborough.. M	48	24th	32	20th	41·9	36·7	39·2	− 2·3	0	20	2	0·03	− 0·38	12·0	—	14	—	Scarborough.
	p York	47	24th	33	25th	44·4	37·0	40·6	− 1·2	7	18	1	0·06	− 0·31	15·0	− 8·8	18	− 10	York.
2. ENGLAND, N.E. — b, South.	a Spurn Head	46	22nd	31	25th	42·7	36·7	39·6	− 1·8	2	18	3	0·08	− 0·21	*	*	*	*	*
	a Lincoln	52	22nd	31	25th	45·9	35·9	40·8	− 1·0	11	23	3	0·26	− 0·09	28·1	—	34	—	Skegness.
	a Fulbeck	55	22nd	31	25th	45·5	36·1	40·7	− 1·1	10	22	5	0·29	− 0·05	25·8	—	31	—	Rauceby.
	p Cromer	47	22nd	26	25th	44·1	35·3	39·6	− 1·3	6	24	5	0·27	—	29·9	—	36	—	Cromer.
3. ENGLAND, E. — a, North.	p Hillington .. M	55	22nd	32	25th	46·4	35·5	40·8	− 0·7	12	25	3	0·60	+ 0·20	31·4	+ 4·4	37	+ 5	Hillington.
	a Yarmouth	48	22nd	33	25th	43·6	38·1	40·8	+ 0·1	4	14	4	0·26	− 0·08	35·3	—	42	—	Yarmouth.
	a Norwich	54	22nd	33	25th	47·0	36·5	41·6	+ 0·3	14	22	4	0·60	—	*	*	*	*	*
	p Geldeston	53	22nd	30	25th	46·1	36·3	41·1	− 0·4	11	22	4	0·52	+ 0·18	35·9	+ 6·2	43	+ 7	Geldeston.
	p Cambridge	60	22nd	33	25th	48·7	35·7	42·0	0·0	19	18	4	0·25	− 0·05	30·3	+ 1·5	36	+ 2	Cambridge.
3. ENGLAND, E. — b, South.	a Felixstowe	50	22nd	31	25th	45·1	38·0	41·5	− 0·3	9	16	4	0·81	—	39·0	—	46	—	Felixstowe.
	a Clacton-on-Sea ..	54	22nd	32	25th	47·3	38·3	42·7	+ 1·4	20	10	4	0·62	—	39·2	—	47	—	Clacton.
	a Rothamsted ..	58	22nd	31	25th	48·4	35·4	41·7	+ 0·6	18	26	6	0·58	+ 0·17	25·7	− 1·7	31	− 2	Rothamsted.
	a Shoeburyness ..	58	21st	32	25th	48·6	38·4	43·1	+ 0·2	23	10	3	0·36	+ 0·11	33·7	—	40	—	Southend.
	p Tottenham	63	22nd	32	25th	49·9	37·4	43·5	+ 1·3	30	13	5	0·33	—	26·8	—	32	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	45	20th, 24th	32	25th	41·4	34·5	37·9	− 2·2	0	29	1	0·04	− 0·43	11·4	—	14	—	Harrogate.
	a Bawtry	50	20th	32	25th	45·3	35·9	40·5	− 1·3	9	23	3	0·21	− 0·12	15·8	− 8·2	19	− 10	Worksop.
	p Buxton .. M	45	20th	31	25th	40·3	33·1	36·6	− 1·8	0	38	1	0.02	− 0·88	11·3	—	14	—	Buxton.
	a Nottingham ..	51	22nd	33	25th	44·3	36·4	40·2	− 1·4	6	20	5	0·27	− 0·08	20·2	—	24	—	Nottingham.
	p Birmingham, Edgbsn	53	22nd	33	25th	44·4	35·7	39·9	− 1·3	·7	23	3	0·22	− 0·18	9·4	—	11	—	Birmingham.
	a Raunds .. M	57	22nd	31	25th	46·8	35·6	41·0	− 0·1	13	24	5	0·41	—	*	*	*	*	*
	a Oxford	59	22nd	33	25th	47·9	37·1	42·3	0·0	23	14	5	0·41	+ 0·10	21·5	− 5·5	26	− 7	Oxford.
4. MIDLAND COUNTIES. — b, West.	a Cheadle .. M	52	20th	31	23rd, 25th	45·6	32·9	39·1	− 1·1	10	33	0	0·00	− 0·50	9·0	—	11	—	Sheffield.
	p Shrewsbury	54	22nd	33	25th	46·8	36·6	41·6	− 1·0	13	22	2	0·30	—	*	*	*	*	*
	a Hereford .. M	54	20th	34	25th	46·1	36·6	41·2	− 1·2	11	21	3	0·56	+ 0·17	*	*	*	*	*
	a Cirencester	55	22nd	32	25th	47·0	35·5	41·1	+ 0·3	14	25	7	0·39	− 0·03	14·7	− 12·8	18	− 15	Cirencester.
	a Bath	57	22nd	32	25th	48·7	37·9	43·1	+ 0·6	25	11	4	0·85	+ 0·38	19·1	—	23	—	Bath.
	p Kew	59	22nd	32	25th	49·1	38·0	43·4	+ 0·9	27	11	4	0·23	− 0·13	34·1	—	41	—	Ramsgate.
	a Marlborough ..	57	22nd	31	25th	47·6	36·7	42·0	+ 1·6	16	15	4	0·69	+ 0·17	19·9	− 5·3	24	− 6	Kew.
	a Margate	62	21st	31	25th	49·4	38·9	44·0	+ 2·0	27	9	3	0·96	+ 0·63	16·9	− 8·0	20	− 10	Marlborough.
5. ENGLAND, S.E.	a Wisley, Surrey ..	59	21st, 22nd	32	25th	50·4	37·5	43·8	+ 0·9	32	13	3	0·24	—	32·7	+ 4·1	39	+ 5	Margate.
	a Swarraton .. M	61	21st	32	25th	50·6	37·5	43·9	+ 2·4	32	13	4	0·32	− 0·18	23·2	—	28	—	Wisley.
	a Tunbridge Wells M	60	21st, 22nd	31	25th	50·6	37·6	43·9	+ 2·1	32	12	3	0·70	+ 0·22	50·9	—	61	—	Worthing.
	a Dungeness	55	21st	32	25th	48·1	40·7	44·3	+ 2·4	22	4	6	0·47	+ 0·11	36·4	+ 7·7	43	+ 9	Tunbridge Wells.
	p Hastings	57	21st	32	25th	50·5	39·4	44·8	+ 2·1	31	7	4	0·68	+ 0·22	39·2	—	47	—	Littlestone.
	p Southampton ..	61	22nd	35	25th	52·5	39·5	45·8	+ 1·4	37	7	5	0·37	− 0·10	45·0	+ 12·9	54	+ 15	Hastings.
	a Ventnor	56.	22nd	35	25th	51·0	40·9	45·8	+ 1·6	31	3	3	0·11	− 0·31	27·4	− 2·4	33	− 3	Southampton.
															44·6	+10·8	53	+13	Ventnor.
															47·8	+16·0	57	+19	Eastbourne.
LONDON	a Westminster ..	60	22nd	33	25th	50·1	39·4	44·6	+ 1·8	29	7	3	0·11	− 0·27	19·9	+ 2·9	24	+ 4	Westminster.
	a Greenwich	62	21st	33	25th	51·1	37·9	44·3	+ 0·9	33	11	3	0·17	− 0·20	28·9	+ 5·1	34	+ 6	Greenwich.
	a Poltalloch .. S	53	24th	26	24th	48·3	31·7	39·8	− 1·1	18	39	0	0·00	− 0·77	*	*	*	*	*
6. a, SCOTLAND. W. ..	p Glasgow	49	24th	34	19th, 24th	42·7	35·3	39·2	− 1·5	2	22	0	0·00	− 0·53	18·0	− 2·2	21	− 3	Glasgow.
	p Rothesay .. S	53	24th	34	25th	45·4	36·3	40·7	− 0·8	10	21	0	0·00	− 0·73	*	*	*	*	*
	a Kilmarnock	49	24th	30	22nd	45·4	33·1	39·1	− 1·9	10	32	0	0·00	—	29·2	—	35	—	Kilmarnock.
	p Colmonell .. S	55	21st	24	22nd, 24th	49·0	29·3	38·9	− 3·0	20	48	0	0·00	− 0·73	*	*	*	*	*
	p Dumfries .. S	49	24th	32	24th	44·6	35·1	39·7	− 1·4	7	25	0	0·00	− 0·63	30·3	—	36	—	Dumfries.
	p Cally, Gatehouse S	50	22nd	31	24th	47·9	33·3	40·4	− 0·5	17	33	0	0·00	− 0·85	*	*	*	*	*
6. b, ISLE OF MAN ..	p Douglas	48	20th, 22nd	34	21st	46·2	36·7	41·3	− 0·5	12	20	2	0·02	− 0·62	32·1	+ 0·7	38	+ 1	Douglas.
															18·2	—	22		Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	50	20th, 22nd	30	21, 24, 25th	46·6	31·8	39·0	− 1·4	13	38	1	0·02	− 0·64	49·4	—	59	—	Aspatria.
	p Newton Rigg ..	47	20th, 21st	26	24th	43·8	30·6	37·0	− 2·5	5	40	3	0·04	− 0·51	33·1	+ 7·1	39	+ 8	Newton Rigg.
	p Stonyhurst	47	24th	35	19, 21, 24th	43·8	35·8	39·7	− 0·9	5	22	1	0·04	− 0·73	24·1	− 1·3	29	− 2	Stonyhurst.
	p Blackpool .. M	50	20, 22, 24th	33	21st	47·5	35·7	41·4	− 0·1	15	25	0	0·00	− 0·50	43·3	+17·5	52	+21	Blackpool.
	p M'nch'ster, Prestwich	47	20, 22, 23, 24	34	25th	44·6	35·7	40·0	− 1·1	7	23	2	0·07	− 0·50	17·1	− 2·9	20	− 3	Prestwich.
	a Liverpool (Bidston)	50	20th, 22nd	35	21st, 25th	45·7	36·9	41·2	− 1·9	10	20	3	0·04	− 0·38	21·3	—	25	—	Liverpool.
	a Hawarden Bridge ..	54	20th	33	21st	47·6	37·3	42·3	− 0·6	22	13	1	0·01	− 0·33	30·4	+ 3·8	36	+ 5	Southport.
															22·8	—	27	—	Rhyl.
7. b, NORTH WALES ..	p Llandudno .. M	48	20th	36	21st	45·2	38·0	41·5	− 1·5	9	16	2	0·02	− 0·46	19·3	− 7·2	23	− 9	Llandudno.
	a Holyhead	50	20th	36	19th	46·3	37·4	41·7	− 1·2	12	18	2	0·16	− 0·41	20·9	—	25	—	Aberdovey.
	p Bettws-y-Coed ..	54	20th	33	21st	47·6	37·0	42·1	− 0·8	22	14	2	0·02	—	15·7	—	19	—	Bettws-y-Coed.
															25·4	—	30	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	53	20th	32	25th	45·0	34·9	39·8	− 0·8	8	26	3	0·11	—	14·0	—	17	—	Llangammarch Wells.
	a Pembroke	55	20th	35	21st	49·3	37·1	43·0	+ 0·1	28	14	1	0·05	− 0·43	25·0	− 6·0	30	− 7	Pembroke.
	a Cardiff	54	20th	34	25th	46·4	37·0	41·6	− 1·7	12	20	4	0·40	− 0·27	18·4	—	22	—	Cardiff.
															21·5	− 7·8	30	− 9	Tenby.
8. b, ENGLAND, S.W. ..	a Clifton	55	22nd	35	25th	46·4	37·7	41·9	− 0·8	12	17	4	0·80	+ 0·27	16·1	—	19	—	Clifton.
	a Shaftesbury .. M	55	21st, 22nd	32	25th	47·7	35·2	41·3	+ 0·2	16	27	4	0·56	+ 0·05	*	*	*	*	*
	a Arlington	54	20th	32	25th	47·4	36·1	41·6	+ 0·2	15	23	0	0·00	− 0·83	26·4	− 5·0	31	− 6	Newquay.
	a Cullompton .. M	57	20th	32	25th	49·8	37·9	43·7	+ 0·7	29	11	2	0·13	− 0·42	16·7	− 11·8	20	− 14	Cullompton.
	a Portland Bill ..	53	22nd	37	25th	47·1	40·6	43·8	+ 0·4	18	4	4	0·20	—	42·0	—	50	—	Weymouth.
	p Plymouth	55	20th	36	25th	50·3	40·9	45·5	+ 1·4	29	3	2	0·02	− 0·57	25·0	− 6·0	30	− 7	Plymouth.
	p Falmouth	51	20th, 22nd	37	25th	48·2	42·1	45·1	+ 0·7	22	0	4	0·22	− 0·47	17·2	− 15·0	21	− 18	Falmouth.
															23·5	—	23	—	Salcombe.
															16·8	− 16·2	20	− 19	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	46	22nd, 25th	35	22nd	44·9	36·6	40·6	− 1·3	8	20	0	0·00	− 0·50	*	*	*	*	*
	a Blacksod Point ..	50	21st, 23rd	36	24th	47·6	38·1	42·7	− 1·1	21	11	0	0·00	− 0·83	*	*	*	*	*
	p Markree Castle ..	51	21st, 25th	30	21st	48·6	34·6	41·4	− 0·4	18	29	0	0·00	− 0·70	35·0	+10·0	42	+12	Markree Castle.
	a Birr Castle	50	23rd, 24th	31	25th	48·0	36·4	42·0	+ 0·2	17	16	0	0·00	− 0·52	28·5	+ 2·2	34	+ 3	Birr Castle.
9. IRELAND, N. — b, East.	p Armagh	48	20th	32	24th	45·8	35·0	40·2	− 1·7	11	26	0	0·00	− 0·50	25·7	+ 1·0	31	+ 1	Armagh.
	a Donaghadee	48	24th	37	22nd	45·6	38·0	41·7	− 0·8	10	16	0	0·00	− 0·48	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	50	22nd	39	21st	46·4	40·5	43·4	− 0·5	16	4	0	0·00	− 0·43	16·5	− 12·7	20	− 15	Phœnix Park.
	a Kilkenny	53	20th	35	21st, 25th	48·9	38·6	43·6	+ 0·9	25	10	3	0·05	− 0·43	*	*	*	*	*
	a Waterford	50	19, 20, 24th	32	21st	48·7	38·7	43·6	+ 0·2	25	9	3	0·08	− 0·51	*	*	*	*	*
10. IRELAND, S. — b, West.	a Birr Castle	50	23rd, 24th	31	25th	48·0	36·4	42·0	+ 0·2	17	16	0	0·00	− 0·52	28·5	+ 2·2	34	+ 3	Birr Castle.
	a Foynes	51	20th	35	25th	48·4	38·8	43·5	− 0·4	24	9	1	0·03	− 0·58	*	*	*	*	*
	a Cahir .. .. M	51	21st, 24th	35	21st, 25th	48·5	38·5	43·4	+ 0·4	25	10	5	0·22	—	*	*	*	*	*
	a Killarney	56	21st	32	25th	50·2	38·5	44·2	− 0·3	30	10	2	0·16	− 0·84	*	*	*	*	*
	a Valencia	55	21st	38	25th	51·7	46·0	46·0	+ 0·9	34	4	3	0·15	− 0·84	32·8	+ 3·2	39	+ 4	Valencia.
	a Roche's Point ..	50	20th	37	25th	47·3	40·0	43·5	− 1·0	19	6	5	0·31	− 0·33	23·0	—	27	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	53	23rd	39	25th	50·6	42·3	46·3	+ 0·4	30	0	5	0·36	− 0·15	21·6	− 11·4	26	− 14	Scilly.
	a Jersey, St. Aubins ..	59	22nd	38	22nd	53·4	41·9	47·5	+ 2·4	39	0	4	0·16	− 0·35	39·9	+ 5·2	48	+ 6	St. Helliers.
	a Guernsey	62	22nd	40	25th	53·4	43·7	48·4	+ 3·2	45	0	5	0·09	− 0·45	37·8	+ 3·3	45	+ 4	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 51·3 hrs. (+ 20·0 hrs.), 61 % (+ 24%); Bournemouth, 40·5 hrs., 48 %; Bognor, hrs., %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	37·2	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·2
	Crathes	1	21	38·0	39·2
	Balmoral	6	18	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	1	26	37·4	—
2.	Cockle Park	3	26	37·8	39·9
	Durham	1	28	—	—
	York	—	—	40·6	42·0
	Hull	1	30	40·6	42·0
	Lincoln	—	—	39·3	41·2
	Rauceby	2	26	41·1	43·0
3.	Norwich	3	27	—	—
	Yarmouth	—	—	41·0	43·1
	Lowestoft	—	—	—	—
	Cambridge	3	27	41·8	43·1
	Clacton-on-Sea ..	1	27	42·9	44·4
	Southend	1	26	43·1	—
	Tottenham	1	30	—	43·5
4.	Harrogate	1	28	39·4	40·8
	Huddersfield ..	1	30	39·1	41·0
	Buxton	1	26	38·0	41·5
	Sheffield	1	29	38·7	41·2
	Nottingham.. ..	1	29	39·3	40·3
	Birmingham.. ..	1	28	39·7	43·0
	Oxford	1	27	—	—
	Hereford	1	30	—	—
	Cirencester	1	28	40·9	42·7
	Bath	—	—	42·7	43·4
5.	Margate	1	—	43·2	43·1
	Greenwich	3	28	—	—
	Westminster ..	1	30	—	—
	Kew	1	25	41·7	43·4
	Canterbury	1	29	42·3	44·1
	Tunbridge Wells ..	2	28	42·2	—
	Wisley	3	25	42·2	42·7
	Worthing	1	29	44·9	44·1
	Portsmouth	0	32	44·6	45·0
6.	Glasgow	1	28	—	—
	Rothesay	—	—	—	42·0
	Colmonell	5	20	—	—
6.	Dumfries	5	27	39·1	41·3
	Douglas	1	29	—	—
7.	Aspatria	4	26	40·6	43·0
	Newton Rigg ..	6	21	39·6	41·0
	Burnley	1	28	38·4	41·0
	Southport	3	26	39·9	42·0
	Manchester City ..	0	32	39·4	43·0
	Bettws-y-Coed ..	0	32	40·9	43·4
8.	Llangammarch Wells	4	19	40·4	43·2
	Cardiff	1	29	40·9	42·8
	Clifton	1	29	—	—
	Plymouth	1	29	44·8	—
9.	Armagh	4	26	41·1	43·6
	Markree	4	24	42·4	44·5
10.	Dublin, Trin. Coll. ..	0	33	42·4	44·0
11.	Guernsey, Brooklyn	1	29	46·7	46·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	43	39	40·8
	Wick	?43	?42	?43·0
SCOTLAND, E.	Cromarty	38	37	37·5
	Pennan Bay	40	39	39·3
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	38	38	38·0
	Scarborough	44	39	40·6
ENGLAND, E.	Shipwash Lightship ..	43	41	42·1
	Margate‡	46	42	43·2
ENGLAND, S.E.	Eastbourne‡	45	42	44·3
SCOTLAND, W.	Lamlash	44	42	43·8
	Ballantrae	44	42	43·2
ENGLAND, N.W.	Port Erin	45	42	43·3
ENGLAND, S.W.	Newquay	48	46	47·0
	Scilly	47	45	46·5
	Plymouth‡	46	46	45·8
	Salcombe	47	44	45·4
IRELAND, N.W.	Sheephaven	46	44	44·7
	Teelin	46	43	44·4
IRELAND, S.W.	Cleggan	45	42	44·0
	Seafield	47	44	45·6
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

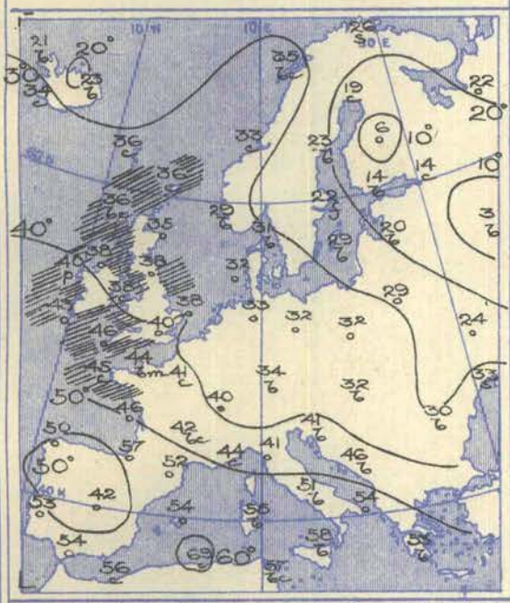
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 19th March, 1911.

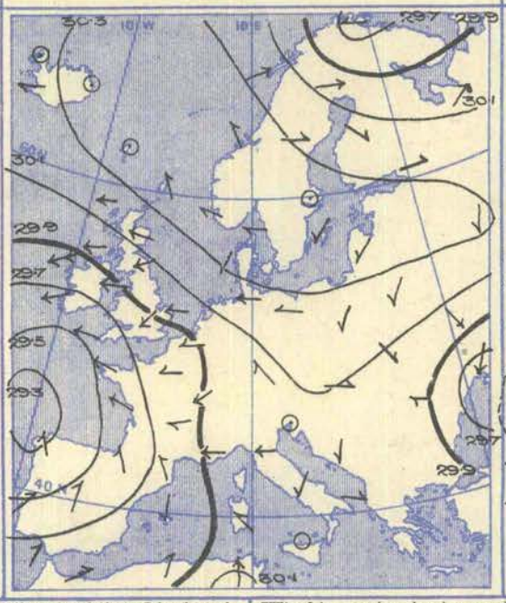
Temperature and Weather.

7 a.m.

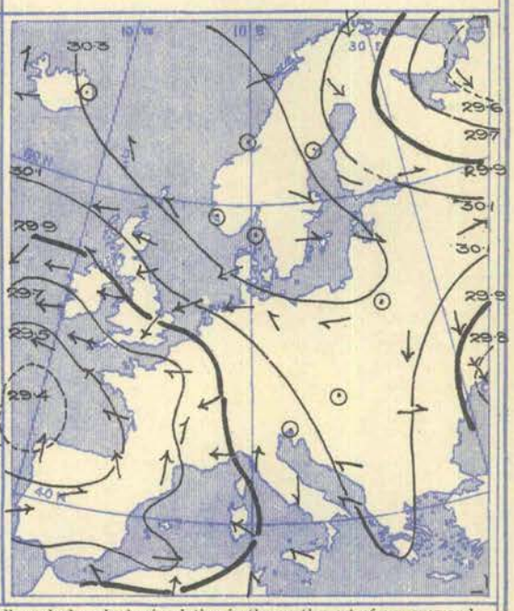


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or quite overcast in nearly all parts of these Islands and the adjacent countries, with snow at Wick and rain at some Irish stations and at Oporto. Mostly fine elsewhere, but dull over a considerable area in central Europe and southern Russia, with snow in places. Snow also falling in the extreme north of Norway. A large quantity of snow falling later in Little Russia, considerable quantities of rain in the south-east of France and the adjacent part of Italy, and smaller measurements in Brittany and at some of our own stations.

Temperature changed rather irregularly generally; risen in France. Readings in morning below 10° in central Finland and at Moscow, and as low as 17° at Karlstad; below 40° over most of the mainland of the Continent and the United Kingdom, but above 50° over a wide area over the Mediterranean, and as high as 69° at Algiers. Rising to nearly 80° later in some parts of Algeria, to 70° at Patras and Bilbao, and to 60° or higher at many other southern stations; remaining below 50° in the central countries and nearly all parts of the United Kingdom.

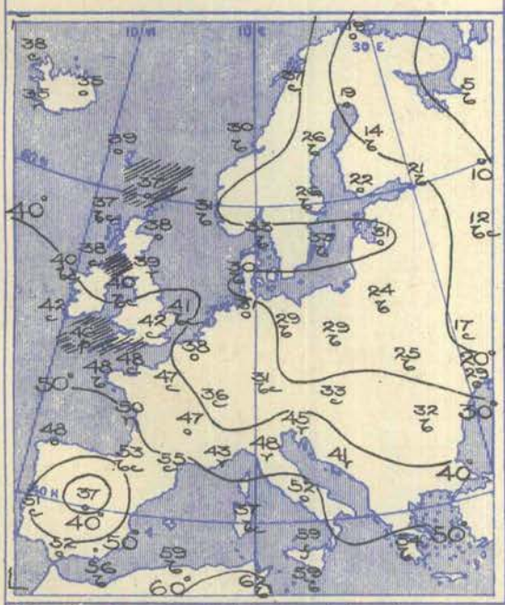
Wind in morning showing a well marked cyclonic circulation in the south-west of our area and others in the extreme north and south-east; Easterly current fresh or strong in these Islands generally and blowing a gale in places. Force much less on the Continent generally, but Northerly wind strong or high in the south of Russia, and Southerly current fresh or strong in Portugal. Decreasing somewhat in force during day in several parts of this country, but increasing to a gale at Scilly. Blowing a very strong breeze from the South at Perpignan and a gale from South-East at Toulouse. A Northerly gale springing up at Vardö.

Barometer in morning ranging from above 30·4 in. in a large anticyclone having its maximum over Norway; below 29·3 in. in a large depression centred off the north-west of Spain, and below 29·7 in. both over the Black Sea and in the far north of Norway. No change of importance later in the general situation. Pressure decreasing slowly in Iceland and Scotland, and also in France.

Monday, 20th March, 1911.

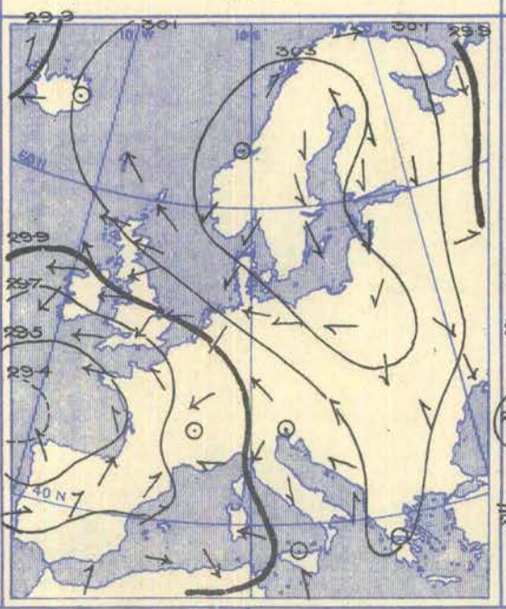
Temperature and Weather.

7 a.m.

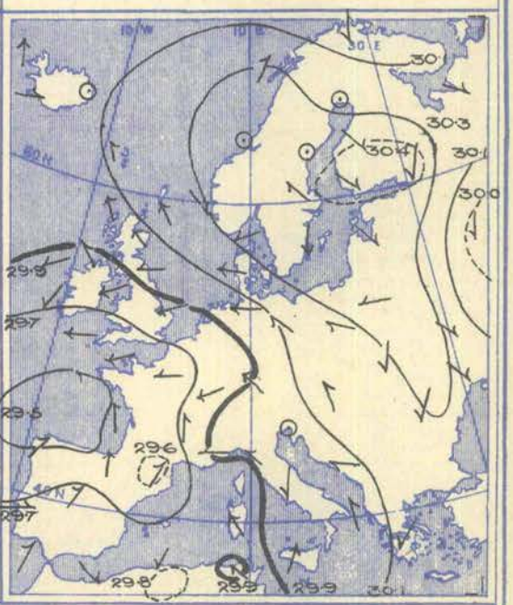


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in nearly all parts of the United Kingdom, France, and Italy with rain at North Shields and at several stations in France and Italy. Fair to very fine generally elsewhere, but snow falling in the extreme south of Russia. A little rain experienced later in various localities in this country and much larger quantities in Brittany, the south of France, and northern Italy, as well as at San Fernando and Gibraltar.

Temperature risen in most parts of these Islands, France, and Scandinavia. Morning readings ranging from above 55° over a considerable area in the far south to below 40° at many stations in this country, and to below 32° over extensive districts on the Continent. Below 20° in some parts of Russia and Finland, and as low as 5° at Archangel. Rising to between 55° and 58° during day on the south coast of England, but only touching 40° on the east coast of Scotland, and remaining below that figure at many places in central Europe. Rising to 70° in Algeria and to 75° at Palermo. Sharp frost at night in the north-east of Scotland.

Wind in morning anticyclonic over the major portion of the Continent, cyclonic over these Islands and the Bay of Biscay region. Easterly current fresh or strong in various parts of England and Ireland, and high at Donaghadee and Scilly. A gale from the Northward prevailing at Nicolaieff, but little force on the Continent generally. Little change in direction later in day, but force decreasing in the west and south-west of these Islands and gale subsiding in the south of Russia.

Barometer in morning below 29·4 in. in a large depression having its centre off the north-west of Spain; above 30·3 in. in an anticyclonic system covering Scandinavia, Poland, and the adjacent part of Germany. Another large depression existing over Russia. General distribution undergoing very little modification during day; high pressure system extending towards the south-east of the Continent.

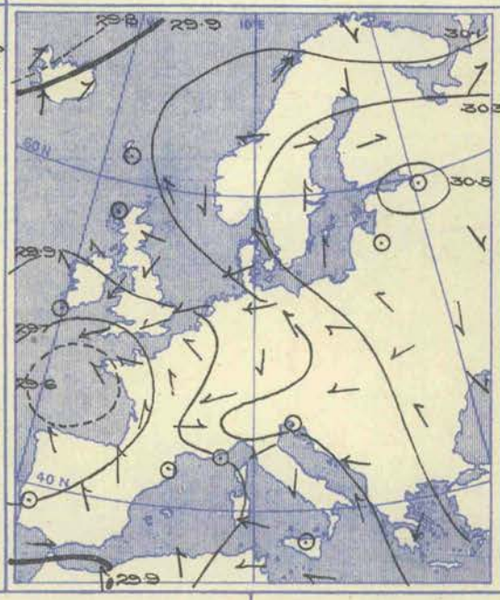
Tuesday, 21st March, 1911.

Temperature and Weather.

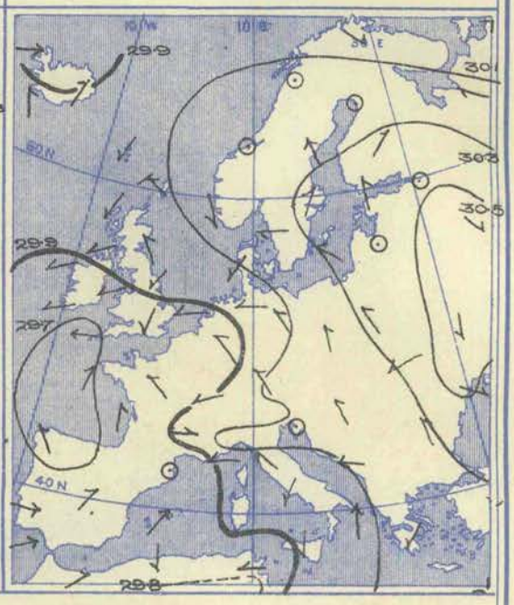
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning varying considerably in the different regions but fair or fine at most stations; rainy in the extreme south-west of England, and also at Bath and in London. Rain also falling at San Fernando, Barcelona, Palermo, Trieste, and Hermanstadt. A little rain later in many English localities, and considerable or heavy falls in the south of France, the Spanish Peninsula, and at Malta. A thunderstorm occurring at Perpignan.

Temperature fallen in Russia and Sweden, changed little and rather irregularly elsewhere. Morning readings ranging from 62° at Algiers and 60° at Palermo and Palma to 26° at Nairn, and to below 20° at many places in the north-east of our area. As low as 3° at Haparanda and St. Petersburg, and 2° at Moscow. Rising to 62° during day at Margate, but barely exceeding 40° in the north-east of Britain. Maxima below 50° at most stations in central Europe; above 60° in Belgium and over a large area in France and Italy, 69° at Palermo, and 72° at Sfax. Sharp frost at night in the north-east of Scotland.

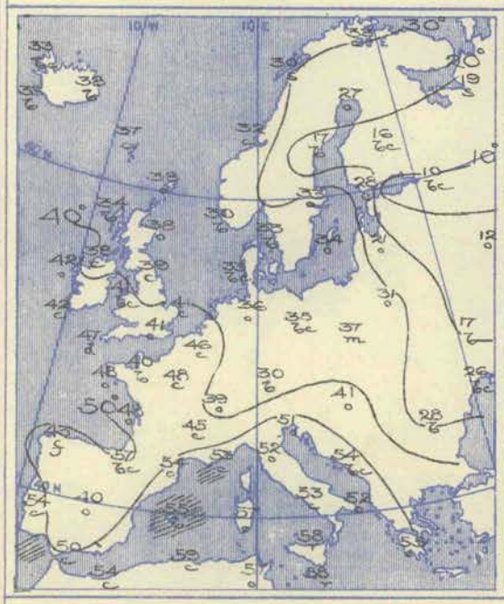
Wind in morning cyclonic over the greater part of the United Kingdom and the nearer portion of the Continent, anticyclonic in eastern and north-eastern Europe. North-Easterly current fresh or strong in some English localities, but force light or moderate over our area as a whole. Little change later except a decrease in force over England.

Barometer in morning above 30·5 in. in a large anticyclone centred over Russia; below 29·6 in. in a large depression over the Bay of Biscay, and below 29·8 in. to the Westward of Iceland. No change of importance during day in the general distribution, but pressure increasing in Russia and also in the region of the depression. Disturbance over the Icelandic region apparently moving away North-Eastward.

Wednesday, 22nd March, 1911.

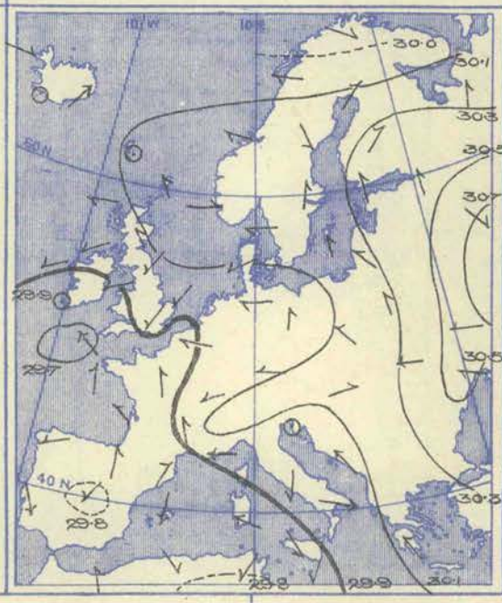
Temperature and Weather.

7 a.m.

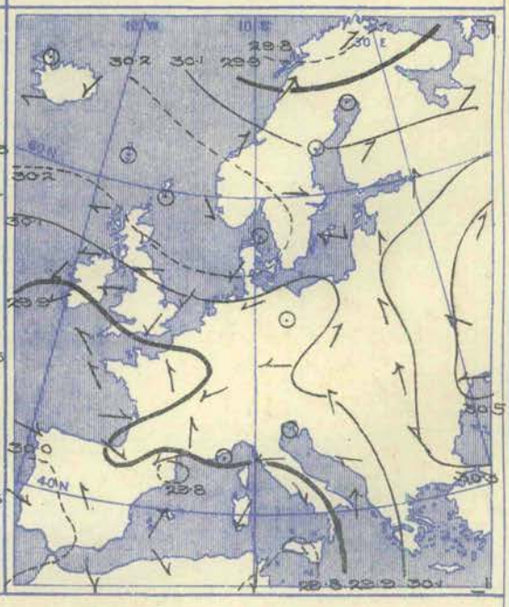


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or overcast generally, but fair to fine in some parts of southern Europe, Germany, southern Russia, and at some stations in the far north; snow falling at Bodö and Archangel, and rain at Lugano, Turin, Palermo, and Malta. Some rain later in the south of Ireland and various parts of England, and more considerable falls at places in France, Italy, and at Swinemünde. Thunderstorms occurring over a wide area in the south-east and south of England.

Temperature risen over Scandinavia and the Baltic; showing no decided change elsewhere. Morning readings ranging from 60° at Sfax and 59° at Algiers to 40° or below in many parts of Great Britain and central Europe, and to much below 32° in Russia and Finland; lowest value, 5° at Kharkoff. Rising to 62° at Brighton during day and to nearly 60° at many other stations in the south of England, as well as in France. Maxima above 60° at several stations in the south of our area, the highest reading being 68° at Nemours.

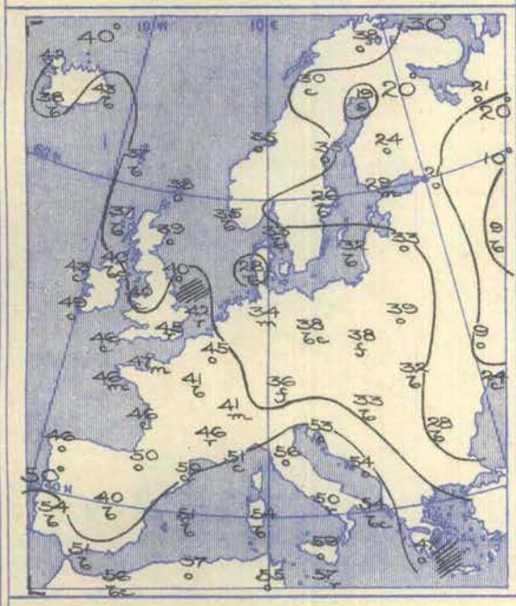
Wind in morning showing an irregular cyclonic circulation of little force over a large area round the Bay of Biscay, but mainly anticyclonic elsewhere. No change of importance later in day.

Barometer in morning above 30·7 in. in central Russia and relatively high between that region and Iceland. Below 29·7 in. in a depression having its centre some distance off the south-west coast of England, and relatively low in a disturbance of little intensity over central Spain, and in ill-defined systems over Belgium and Germany. Low pressure systems becoming less deep during day, and barometer rising rather decidedly in Iceland and the north and west of these Islands. A fall setting in over the north of Scandinavia.

Thursday, 23rd March, 1911.

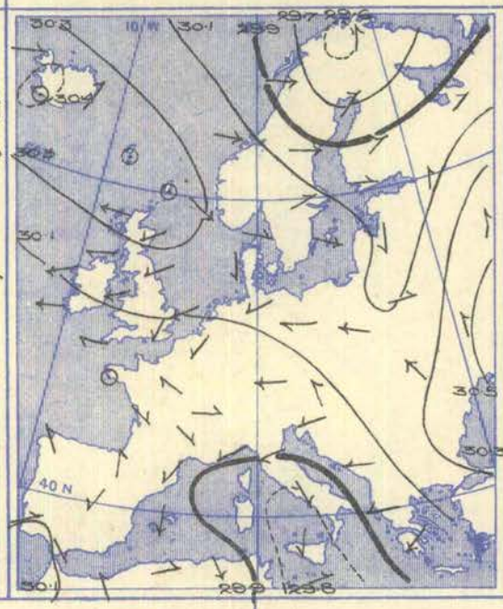
Temperature and Weather.

7 a.m.

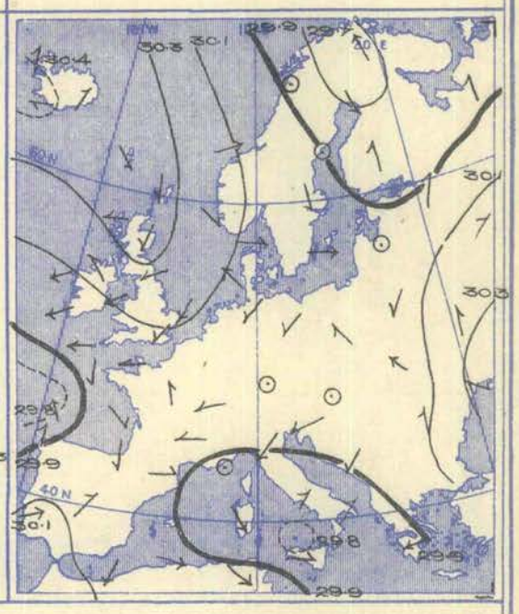


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in most places, but fair to bright in some localities in all countries. Rain falling at some stations in England, and also at Lyons, Turin, Naples, and Malta, and snow at Haparanda. Rather heavy rain later at Athens, in Italy, the south of France, and at Oporto and Corunna, and slighter falls in the north of France, and the south of England and Ireland.

Temperature changed little generally; fallen over France and the Baltic. Morning readings ranging from 55° and above at several stations in the south of our area to below 40° over most of the mainland of Europe and in the northern half of Great Britain, and to below 10° at Moscow and Kharkoff. Maxima during day below 50° over the major portion of this country, but above 60° over a large part of France, Italy, and the Spanish Peninsula. Thermometer rising to 65° at a few places in the far south, and touching 68° at Nemours. Frost at night in the north-east of Scotland.

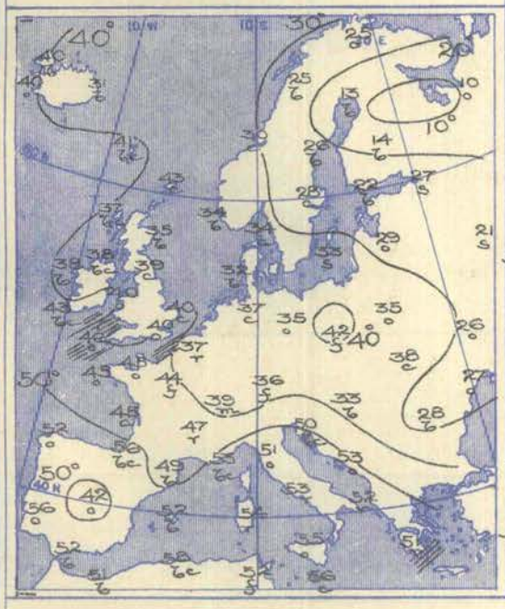
Wind in morning Westerly in Scandinavia, Northerly in Denmark, and North-Easterly in these Islands and the Netherlands; strong on the Dutch coast and fresh at some of our own stations, but of little force generally. Light anticyclonic breezes prevailing over Russia, and light cyclonic winds over the Mediterranean. Wind veering somewhat later in Scandinavia, but no decided change occurring over our area generally. Increasing to a strong breeze from North-West at Tunis, and to a high wind from South on the ocean near Corunna.

Barometer in morning above 30·3 in. in a high pressure system extending from Iceland to the North Sea, and above 30·6 in. in the south of Russia. Below 29·6 in. in the far north of Scandinavia, below 29·8 in. in a shallow depression over Sicily and its vicinity, and relatively low over northern France and over the Atlantic to the south-west of these Islands. Scandinavian depression spreading Southwards and South-Eastwards later, and a fresh fall of the barometer taking place over the Bay of Biscay. Anticyclone maintaining its position.

Friday, 24th March, 1911.

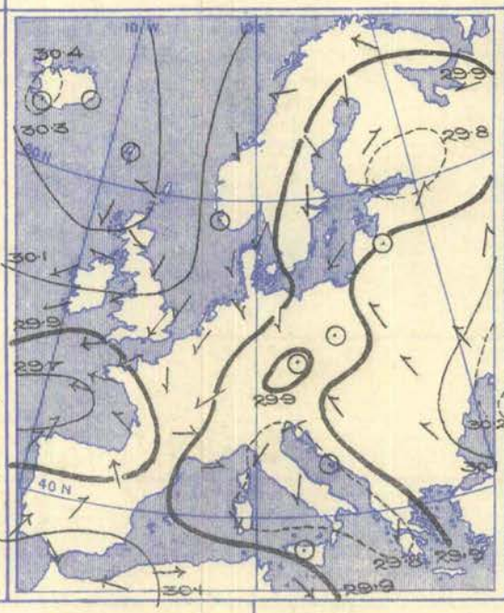
Temperature and Weather.

7 a.m.

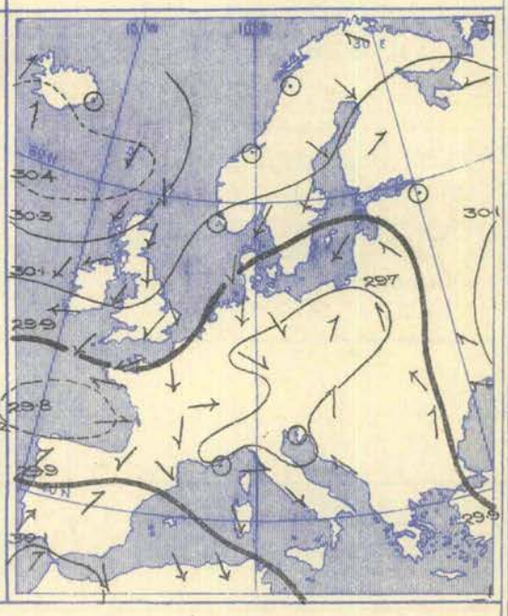


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning varying greatly; cloudy or overcast in most localities, but fine and bright in several places. Rain falling over a wide area in the south and south-east of Europe and also at Dungeness and Brussels, and snow at Wisby and Moscow. Slight precipitation taking place later in many parts of the United Kingdom and more copious falls in various parts of France, the Netherlands, central Europe, Italy, and Portugal.

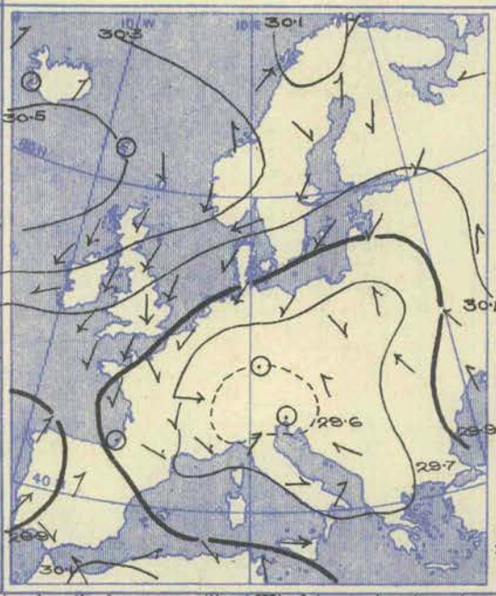
Temperature fallen in most regions. Morning readings ranging from 2° at Uleaborg, 10° at Archangel, 14° at Kharkoff, and 21° at Moscow to a little above or below 40° over a very large portion of the Continent and the United Kingdom, to above 55° on some shores of the Mediterranean. Rising during day to about 50° in the extreme west and south-west of these Islands and at Oban, and to above 45° at many of our stations elsewhere. Maxima above 60° very generally in the south of our area above 65° in places, and as high as 70° or 71° at Malaga and Perpignan. Slight frost at night in England.

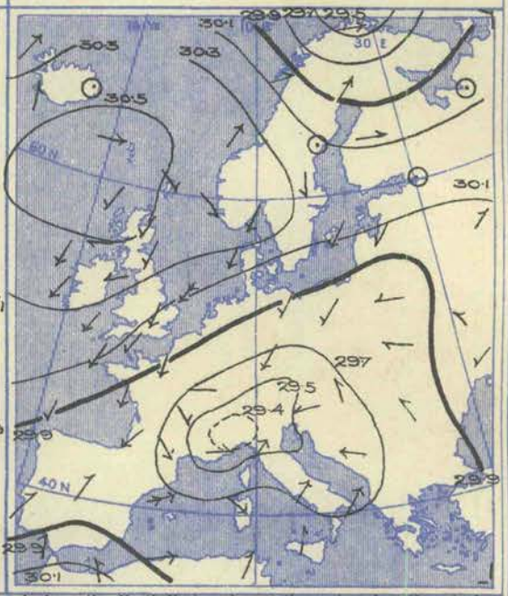
Wind in morning North-Easterly to Easterly over these Islands and the Channel, fresh or strong in places in the south and west. Moderate from the Northward over Scandinavia, variable and light over the central countries, fresh from North-West at Malta, and moderate to fresh from South-West on the coast of Portugal. No general change occurring during day, but some increase in force taking place on the shores of the Baltic.

Barometer in morning below 29·7 in. in a depression over the Bay of Biscay, and below 29·8 in. in a system over Italy and the Adriatic and in another over Finland; above 30·3 in. in an anticyclone stretching from Iceland to Scotland, as well as in the extreme south-east of Russia. Pressure giving way decidedly during day over central Europe and increasing over Norway. Anticyclone in the far North-West extending somewhat towards these Islands.

Saturday, 25th March, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning generally rough and unsettled in the west and north of our area, with much cloud and rain or snow in several localities, but fair to fine in the west and north of the United Kingdom. Rainy in Portugal, some parts of central Europe, at Trieste, and Brindisi, and bright to cloudy or overcast on the shores of the Mediterranean. Showers of sleet and snow experienced later in many parts of England and heavier falls in several French localities. Considerable amounts of rain or snow in central Europe, and of rain in the Spanish Peninsula.

Temperature fallen or changed little over our area as a whole. Readings in morning 60° at Algiers, nearly as high at some other stations in the far south, and 55° at Perpignan; below 40° over most of the European mainland and this country, below 32° over a very wide area in eastern and northern Europe, and as low as 10° in the north of Finland and at Archangel. Maxima during day about 40° over the greater part of England and rather lower over the Netherlands and Germany; above 60° at many stations in the far south of our area, 68° at Barcelona, and about 70° on the coast of Algeria.

Wind in morning strong to a gale from the North-Eastward over the east and south-east of England, the Channel, and the coast of Holland, moderate to light from North-East in Ireland and Scotland. Drawing into the Westward over southern Europe and the Mediterranean and blowing freshly in places. A strong North-East current prevailing over the south of Scandinavia and the Baltic, and a gale at Christiania. North-Easterly gale continuing all day, and no great change occurring in any part of our area. Westerly wind increasing to a gale at Palma.

Barometer in morning above 30·5 in. between the Hebrides and Iceland and above 30·2 in. in the east of Russia. Relatively low in the north of Scandinavia, and below 29·6 in. in a complex depression over Italy and its vicinity. Below 29·9 in. in a large depression of little intensity to the west of the Spanish Peninsula. Southern depression becoming deeper during day, but little modification taking place in the general distribution of pressure. Barometer falling in Iceland, rising somewhat in Scotland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
1	1911. March 22nd, 4.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	 65°, 4·0		 61°, 7·0	 67°, 7·5	 77°, 5·5			 77°, 6·0	1,600	Two theodolites to 1,000 m. ci. and cn. Clouds.
2	March 24th, 10.50 a.m. to 11.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	276° 90% 45°, 7	275·5° 90% 45°, 9	**272·5°** 95% 55°, 15	**271·5°** 100% 65°, 14				**271·0°** 90% 55°, 12	1,350	Clouds at 900 m. Clear afternoon.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites..	—	1
Area of Surface (sq. metres) ..	—	8
Capacity of Balloon (cub. metres)	·011	—
Length of Wire (metres)	—	1,900

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 13. THIRTEENTH WEEK, SUNDAY, MARCH 26TH, TO SATURDAY, APRIL 1ST, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather. Over the Kingdom generally the greater part of the week was dry, although there was a good deal of cloud, especially in the eastern and central districts of Britain. A heavy and prolonged fall of rain commenced in the extreme south-east of England late on Saturday.

Temperature was below the average except in Scotland N. and England N.W. but the divergence was not large. The highest of the maxima, which were mostly recorded late in the week, raged from 63° in England S.W. to 51° in England N.E. The lowest of the minima occurred at most stations on the 26th. In Scotland E. and Ireland N. readings as low as 22° were recorded, and in England E. the thermometer touched 23°, while elsewhere the values ranged from 24° in Scotland W. to 32° in England N.E., and to 33° in the English Channel. The lowest grass readings were 16° at Markree Castle, 18° at Armagh, 19° at Balmoral, Aspatria and Llangammarch Wells, and 21° at Southport.

Mean Temperature of the Sea. As a whole the temperature of the water did not differ much from that of the corresponding week of last year, but in many places it was rather higher. The means for the week ranged from 47° at Newquay to 40° at Scarborough, and to 39° at Cromarty and Burnmouth.

Rainfall was less than the average generally, but considerably more in England S.E., and slightly more in the English Channel. The fall at the end of the week in the south-east of England measured about 0·75 in. in several places. At some stations in the north-west of England, the north of Ireland and the west and north of Scotland the week was rainless.

Bright Sunshine was deficient generally, the difference from the normal being large in most districts. In Scotland N. and England N.W., however, there was a trifling excess. At some stations in East Anglia the total sunshine for the week amounted to less than 6 hours. The percentage of the possible duration ranged from 35 in England N.W. and Ireland S. to 16 in the Midland Counties and to 14 in Scotland E. and England E.

Barometer and Wind. The distribution of pressure was again favourable for winds from between North and East. At the beginning of the week the gradient was steep over England and the Channel, and gales and high winds from the North-Eastward were experienced. By Tuesday, however, the wind had moderated, and for the remainder of the week the force was light or moderate over the whole Kingdom. A depression was shown to the south-westward and westward of Ireland on Wednesday, and the wind became South-Easterly on our western and south-western coasts, and on Friday it became very variable in the south and south-east of England. The heavy rain in the south-east at the end of the period accompanied the development of a very slight and somewhat ill-defined depression over Belgium and the north-east of France.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 108.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Light	Light	Moderate	Moderate	Heavy	Light	Light	Ligh	Ligh	Moderate	Moderate
	Sunshine ...	Moderate	Scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty	Moderate	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 4 weeks from Mar. 5th, 1911.	Warmth ...	**0** * 1	**0** * 1	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 1	**0** * 1	**0** * 1	**0** * 0	**0** * 2	**0** * 0
	Rainfall ...	**1** * 3	**1** * 2	**1** * 3	**1** * 0	**1** * 0	* 0	**0** * 3	**0** * 2	**2** * 2	**0** * 3	**1** * 1	**2** * 0
	Sunshine ...	**3** * 0	**1** * 2	**0** * 3	**0** * 2	**0** * 3	**0** * 3	**2** * 1	**1** * 0	**0** * 1	**2** * 1	**2** * 0	**0** * 1

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTEENTH WEEK—March 26th to April 1st, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	55	29	48·1	35·4	41·6	+ 1·2	17	0	26	- 1	1	- 3	0·05	- 0·86	28	+ 1	32	+ 1
Eastern																		
1. SCOTLAND, EAST	55	22	45·2	34·7	39·8	- 0·9	9	- 13	27	- 2	4	0	0·15	- 0·34	12	- 17	14	- 20
2. ENGLAND, N.E.	51	32	43·6	36·7	40·1	- 1·7	4	- 19	19	- 4	3	0	0·11	- 0·27	18	- 15	20	- 17
3. ENGLAND, EAST	56	23	46·0	37·4	41·6	- 1·2	11	- 19	18	- 6	3	0	0·24	- 0·12	12	- 22	14	- 25
4. MIDLAND COUNTIES	57	30	46·5	36·1	41·2	- 1·5	13	- 19	23	- 2	3	- 1	0·23	- 0·16	14	- 16	16	- 18
5. ENGLAND, S.E.	61	30	48·5	37·7	42·9	- 1·1	24	- 8	12	- 4	3	0	0·65	+ 0·29	16	- 17	19	- 19
Western																		
6. SCOTLAND, WEST	58	24	48·9	35·6	42·1	0·0	28	+ 6	18	- 3	2	- 2	0·11	- 0·65	24	- 7	28	- 8
7. ENGLAND, N.W.	60	28	49·5	37·2	43·1	+ 0·5	28	+ 4	13	- 6	1	- 3	0·13	- 0·43	31	+ 3	35	+ 3
8 ENGLAND, S.W.	63	30	49·6	37·7	43·5	- 0·7	29	- 3	12	- 2	3	- 1	0·21	- 0·38	28	- 5	32	- 6
9. IRELAND, NORTH	55	22	48·5	36·8	42·5	- 0·5	25	- 1	15	- 3	2	- 3	0·19	- 0·46	17	- 13	19	- 14
10. IRELAND, SOUTH	61	25	51·0	37·1	43·9	- 0·7	34	+ 1	14	0	5	+ 1	0·52	- 0·16	31	- 3	35	- 3
11. ENGLISH CHANNEL	61	33	50·4	40·3	45·2	- 1·4	30	- 7	5	+ 1	5	+ 1	0·49	+ 0·02	20	- 20	22	- 22

THE SEASON (Spring).—Aggregates, &c., for the Period of 4 Weeks, March 5th, to April 1st, 1911.

0. SCOTLAND, NORTH	55	22	*	*	*	*	32	- 15	122	+ 1	12	- 8	2·01	- 2·02	119	+ 31	36	+ 9
Eastern																		
1. SCOTLAND, EAST	55	22	*	*	*	*	20	- 47	129	- 3	17	+ 1	1·45	- 0·63	89	- 13	27	- 4
2. ENGLAND, N.E.	55	28	*	*	*	*	22	- 56	100	- 6	17	+ 3	1·48	- 0·11	80	- 35	24	- 11
3. ENGLAND, EAST	63	23	*	*	*	*	42	- 57	104	- 9	18	+ 5	2·14	+ 0·74	79	- 36	24	- 11
4. MIDLAND COUNTIES	59	24	*	*	*	*	40	- 62	111	- 3	15	+ 2	1·55	0·00	67	- 36	20	- 11
5. ENGLAND, S.E.	62	26	*	*	*	*	71	- 32	80	- 4	16	+ 4	2·45	+ 0·84	87	- 27	27	- 8
Western																		
6. SCOTLAND, WEST	58	24	*	*	*	*	61	- 8	105	+ 8	9	- 8	0·73	- 2·44	106	+ 3	32	+ 1
7. ENGLAND, N.W.	60	26	*	*	*	*	55	- 21	85	- 2	12	- 3	0·98	- 1·18	106	+ 6	32	+ 2
8. ENGLAND, S.W.	63	22	*	*	*	*	70	- 33	77	+ 7	15	0	2·56	+ 0·15	102	- 13	31	- 4
9. IRELAND, NORTH	55	22	*	*	*	*	64	- 23	88	+ 6	11	- 7	0·83	- 1·61	109	+ 11	33	+ 3
10. IRELAND, SOUTH	61	25	*	*	*	*	90	- 23	77	+ 13	17	+ 1	2·08	- 0·58	116	+ 4	35	+ 1
11. ENGLISH CHANNEL	62	31	*	*	*	*	115	- 8	29	+ 3	22	+ 6	2·98	+ 0·99	113§	- 26	34	- 8

THE YEAR.—Aggregates, &c., for the Period of 13 Weeks, January 1st to April 1st, 1911.

0. SCOTLAND, NORTH	55	14	*	*	*	*	121	+ 14	341	- 110	58	- 8	14·42	- 0·57	205	+ 29	25	+ 3
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	105	- 30	413	- 96	51	0	5·78	- 1·29	232	+ 6	27	+ 1
2. ENGLAND, N.E.	58	19	*	*	*	*	146	- 12	321	- 86	45	- 2	3·99	- 0·99	214	- 27	24	- 3
3. ENGLAND, EAST	63	16	*	*	*	*	154	- 35	357	- 95	54	+ 7	5·40	+ 0·63	226	- 29	25	- 3
4. MIDLAND COUNTIES	60	14	*	*	*	*	162	- 44	355	- 95	42	- 4	4·12	- 1·61	196	- 26	22	- 3
5. ENGLAND, S.E.	62	16	*	*	*	*	174	- 47	307	- 36	45	+ 1	5·57	- 0·49	239	- 8	27	- 1
Western																		
6. SCOTLAND, WEST	58	18	*	*	*	*	184	+ 26	287	- 72	49	- 8	10·12	- 1·90	216	+ 7	25	+ 1
7. ENGLAND, N.W.	60	17	*	*	*	*	166	- 4	269	- 69	44	- 7	6·27	- 1·56	232	+ 19	26	+ 2
8. ENGLAND, S.W.	63	13	*	*	*	*	183	- 71	250	- 19	48	- 3	7·53	- 1·88	244	- 7	27	- 1
9. IRELAND, NORTH	58	18	*	*	*	*	217	+ 5	256	- 43	48	- 12	6·23	- 2·74	241	+ 25	28	+ 3
10. IRELAND, SOUTH	61	18	*	*	*	*	279	- 20	248	+ 19	54	0	7·02	- 3·19	255	+ 7	29	+ 1
11. ENGLISH CHANNEL	62	29	*	*	*	*	303	- 39	110	+ 5	55	- 2	6·45	- 1·45	271§	- 36	30	- 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding values for Reports Nos. 10, 11 and 12 slightly altered owing to the receipt of further information.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands	p *Baltasound* S	*50*	*27th*	*28*	*1st*	*46·8*	*34·3*	*40·6*	—	*13*	*27*	*2*	*0·06*	—	*29·1*	—	*33*	—	*Baltasound.*
	a Sumburgh Head ..	49	29th	29	1st	46·7	34·7	40·5	+ 1·1	13	27	1	0·05	− 0·56	26·5	− 1·2	30	− 1	Deerness.
	a Stornoway	53	30th	31	1st	49·3	35·7	42·3	+ 1·5	29	18	2	0·02	− 0·82	39·6	+11·2	45	+13	Stornoway.
	a *Castlebay, Barra Isd.*	*52*	*30th, 31st*	*39*	*28th*	*48·6*	*41·3*	*44·8*	+ *1·1*	*23*	*2*	*0*	*0·00*	—	*32·1*	—	*37*	—	*Castlebay.*
	a Wick	53	30th	32	30th	47·9	35·6	41·6	+ 0·9	17	25	1	0·01	− 0·47	*	*	*	*	* *
b, Mainland	p Strathpeffer.. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Strathpeffer.
	p Glencarron .. S	54	29th	30	1st	47·8	34·3	40·9	+ 1·3	16	30	0	0·00	− 1·58	*	*	*	*	* *
	p Fort Augustus S	54	29th	33	30th	47·2	36·2	41·5	+ 0·9	15	23	2	0·13	− 0·58	19·0	− 2·0	22	− 2	Fort Augustus.
	p Fort William S	55	29th	32	27th	49·9	35·6	42·5	+ 0·7	30	18	2	0·09	− 1·23	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	51	29th	32	29th	47·9	34·9	41·2	− 0·5	17	28	3	0·07	− 0·41	*18·6*	—	*21*	—	*Gordon Castle.*
	a Nairn	55	29th	25	29th	47·1	32·1	39·4	− 1·5	14	37	4	0·17	− 0·21	18·6	—	21	—	Nairn.
	a Aberdeen	50	29th	37	29th	46·9	38·4	42·5	+ 1·2	19	10	3	0·25	− 0·26	8·9	− 21·2	10	− 24	Aberdeen.
	a Balmoral .. S	51	1st	22	29th	46·1	31·0	38·3	+ 0·9	11	40	4	0·21	− 0·39	8·9	—	10	—	Crathes S.
	p Crieff .. .. S	48	30th, 31st	35	26, 28, 31, 1	45·6	35·5	40·4	− 1·4	10	24	4	0·14	− 0·48	12·8	—	15	—	Balruddery.
	a Leith	45	28th	38	26,27,29,30,31	43·3	38·3	40·7	− 1·8	4	13	4	0·11	− 0·20	*	*	*	*	* *
	p West Linton.. S	45	1st	29	27th	41·4	33·3	37·2	− 2·1	0	34	4	0·16	—	*9·5*	—	*11*	—	*West Linton.*
	p Marchmont .. S	46	26th	31	27th	42·9	34·3	38·5	− 1·7	3	27	2	0·07	− 0·47	12·1	− 15·3	14	− 17	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	45	27th, 31st	34	26th	42·9	36·6	39·7	− 1·5	3	19	1	0·02	− 0·50	16·7	—	19	—	Cockle Park.
	a Shields	46	27th	35	26th, 28th	43·1	36·3	39·6	− 2·2	3	20	3	0·06	− 0·32	*12·3*	*− 10·0*	*14*	*− 11*	*Newcastle.*
	p Durham	46	27th, 1st	32	26th	42·3	35·5	38·8	− 2·4	1	22	4	0·07	− 0·30	16·9	− 10·6	19	− 12	Durham.
	p Rounton .. M	46	27th, 28th	32	28th	43·3	35·7	39·4	− 1·6	4	22	5	0·06	− 0·39	*	*	*	*	* *
	p Scarborough.. M	49	1st	37	26th, 28th	43·4	38·0	40·6	− 1·7	4	14	4	0·10	− 0·31	25·7	—	29	—	Scarborough.
	p York	51	1st	33	26th, 27th	46·0	36·9	41·3	− 1·5	11	20	4	0·09	− 0·29	19·8	− 6·2	23	− 7	York.
b, South.	a Spurn Head	47	1st	33	26th	43·1	37·7	40·3	− 2·0	3	15	2	0·16	− 0·12	*	*	*	*	* *
	a Lincoln	49	1st	34	26th	44·6	37·0	40·7	− 2·1	7	19	4	0·17	− 0·17	14·0	—	16	—	Skegness.
	a Fulbeck	48	1st	33	26th	44·0	36·8	40·3	− 2·5	6	19	4	0·28	− 0·08	12·8	—	15	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	47	30th, 31st	23	26th	43·2	35·3	39·1	− 2·7	3	23	5	0·09	—	*5·5*	—	*6*	—	*Lowestoft.*
	p Hillington .. M	51	1st	34	28th, 1st	44·7	37·0	40·7	− 1·9	8	18	5	0·21	− 0·19	14·6	− 14·6	17	− 17	Hillington.
	a Yarmouth	50	30th	31	26th	44·1	38·1	41·0	− 0·7	6	14	1	0·03	− 0·31	5·5	—	6	—	Yarmouth.
	a Norwich	54	30th	33	28th	45·7	38·2	41·8	− 0·5	10	15	2	0·13	—	*	*	*	*	* *
	p Geldeston	56	30th	34	26th	46·2	37·8	41·9	− 0·6	12	17	1	0·05	− 0·31	5·8	− 26·2	7	− 30	Geldeston.
	p Cambridge	53	28th	33	26th	46·6	37·9	42·1	− 1·1	18	11	1	0·05	− 0·26	16·9	− 14·4	19	− 16	Cambridge.
b, South.	a *Felixstowe*	*54*	*31st, 1st*	*32*	*26th*	*46·6*	*38·1*	*42·2*	− *0·6*	*18*	*11*	*3*	*0·28*	—	*17·0*	—	*19*	—	*Felixstowe.*
	a Clacton-on-Sea ..	54	30th	32	26th	47·6	37·0	42·1	− 0·3	22	14	3	0·35	—	12·8	—	15	—	Clacton.
	a Rothamsted ..	54	28th	32	26th	47·6	36·6	41·9	− 0·5	16	21	4	0·50	+ 0·10	14·0	− 15·6	16	− 18	Rothamsted.
	a *Shoeburyness* ..	*56*	*31st*	*32*	*26th*	*47·6*	*37·6*	*42·5*	− *1·4*	*22*	*12*	*3*	*0·58*	+ *0·32*	*9·9*	—	*11*	—	*Southend.*
	p Tottenham	56	31st	33	26th	48·3	38·8	43·4	− 0·1	23	9	3	0·76	—	15·4	—	18	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	48	1st	31	26th	42·5	34·9	38·6	− 2·7	1	25	4	0·11	− 0·36	9·8	—	11	—	Harrogate.
	a Bawtry	50	27th	31	26th	45·9	36·6	41·1	− 1·7	11	21	4	0·24	− 0·09	?18·0	− 7·7	21	− 9	Worksop.
	p *Buxton* .. M	*50*	*30th*	*30*	*26th*	*44·2*	*34·4*	*39·2*	− *0·4*	*6*	*27*	*2*	*0.23*	− *0·61*	*21·7*	—	*25*	—	*Buxton.*
	a Nottingham ..	49	1st	32	26th	45·1	36·3	40·6	− 2·1	9	21	2	0·20	− 0·14	15·2	—	17	—	Nottingham.
	p Birmingham, Edgbsn	51	28th	31	26th	45·4	36·3	40·7	− 1·8	10	21	2	0·20	− 0·21	12·4	—	14	—	Birmingham.
	a Raunds .. M	54	28th	32	26th, 28th	46·2	36·1	41·0	− 1·4	12	23	4	0·21	—	*	*	*	*	* *
	a Oxford	55	28th	33	26th	46·9	37·3	42·0	− 1·5	14	13	3	0·38	+ 0·07	13·6	− 15·6	16	− 18	Oxford.
b, West.	a Cheadle .. M	48	27, 28, 30th	31	26th	46·6	33·8	40·0	− 1·3	13	31	1	0·14	− 0·34	21·6	—	25	—	Sheffield.
	p Shrewsbury	52	27th	30	28th	49·3	36·3	42·6	− 0·7	28	16	2	0·18	—	*	*	*	*	* *
	a Hereford .. M	52	31st	32	26th	47·5	36·8	42·0	− 1·5	15	15	3	0·27	− 0·12	*	*	*	*	* *
	a Cirencester	53	31st	31	26th	46·9	35·3	40·9	− 1·2	14	25	3	0·31	− 0·11	11·6	− 18·2	13	− 21	Cirencester.
	a Bath	57	31st	33	26th	49·3	37·6	43·3	− 0·3	28	12	2	0·25	− 0·22	12·8	—	15	—	Bath.
5. ENGLAND, S.E... ..	p Kew	55	31st	34	26th	48·4	39·0	43·6	− 0·2	24	8	3	0·86	+ 0·50	*17·6*	—	*20*	—	*Ramsgate.*
	a Marlborough ..	57	31st	32	26th	47·5	36·5	41·8	+ 0·1	15	22	2	0·49	- 0·01	9·6	− 18·4	11	− 21	Kew.
	a Margate	57	31st	31	26th	47·6	36·8	42·0	− 1·3	16	15	4	0·38	+ 0·06	12·4	− 14·7	14	− 17	Marlborough.
	a Wisley, Surrey ..	56	31st	32	26th	49·5	37·6	43·4	− 0·6	28	12	3	0·66	—	16·6	− 14·4	19	− 17	Margate.
	a Swarraton .. M	57	31st	33	26th, 28th	48·7	36·6	42·5	− 0·3	26	15	2	0·61	+ 0·13	12·2	—	14	—	Wisley.
	a Tunbridge Wells M	58	31st	30	26th	48·4	35·9	42·0	− 1·1	18	17	3	1·22	+ 0·76	23·3	—	27	—	Worthing.
	a Dungeness	52	31st	32	26th	46·9	38·0	42·3	− 0·9	19	11	3	0·81	+ 0·46	14·6	− 16·7	17	− 19	Tunbridge Wells.
	p Hastings	55	31st	31	26th	47·4	38·3	42·7	− 1·4	20	10	3	0·85	+ 0·41	19·3	—	22	—	Littlestone.
	p Southampton ..	61	31st	34	26th	50·5	38·9	44·5	− 1·3	31	9	2	0·34	− 0·13	*17·1*	*− 17·3*	*20*	*− 20*	*Hastings.*
	a Ventnor	57	31st	32	26th	50·3	39·2	44·6	− 0·6	30	8	3	0·23	− 0·18	20·9	− 11·4	24	− 13	Southampton.
															23·7	− 12·6	27	− 15	Ventnor.
LONDON .. — ..	a *Westminster* ..	*53*	*28th, 1st*	*35*	*26th*	*49·3*	*40·4*	*44·7*	+ *0·9*	*26*	*4*	*3*	*0·65*	+ *0·29*	11·7	− 22·5	13	− 26	Eastbourne.
	a *Greenwich*	*56*	*31st*	*33*	*26th, 28th*	*49·9*	*37·9*	*43·7*	− *0·9*	*29*	*11*	*3*	*0·88*	+ *0·52*	*10·8*	− *8·8*	*12*	− *10*	*Westminster.*
															12·6	− *13·8*	*15*	− *16*	*Greenwich.*
6. — a, SCOTLAND. W.	a Poltalloch .. S	58	30th	31	26th	51·9	35·1	43·3	+ 1·4	38	19	3	0·11	− 0·61	*	*	*	*	* *
	p Glasgow	48	1st	35	26th	45·1	37·1	41·0	− 0·7	9	19	3	0·17	− 0·35	8·7	− 14·0	10	− 16	Glasgow.
	p Rothesay .. S	52	30th	33	26th	49·3	38·3	43·6	+ 1·1	27	10	1	0·31	− 0·40	*	*	*	*	* *
	a Kilmarnock	52	1st	24	26th	48·4	34·1	41·0	− 1·1	18	30	3	0·08	—	*18·0*	—	*21*	—	*Kilmarnock.*
	a Colmonell	55	29th	29	26th	52·1	35·1	43·4	+ 0·8	39	19	1	0·15	− 0·54	*	*	*	*	* *
	p Dumfries .. S	51	1st	30	27th, 29th	46·6	33·7	40·0	− 2·4	13	31	1	0·02	− 0·58	*24·7*	—	*28*	—	*Dumfries.*
	p Cally, Gatehouse S	51	29th	27	26th	49·3	33·9	41·4	− 0·7	20	32	0	0·00	− 0·80	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	55	30th	32	26th	48·1	37·6	42·7	+ 0·1	23	12	2	0·04	− 0·59	39·6	+ 5·3	45	+ 6	Douglas.
7. — a, ENGLAND, N.W...	p Aspatria	54	29th	28	26th	48·4	34·2	41·1	− 0·3	18	30	0	0·00	− 0·61	—	—	—	—	Hoylake.
	p Newton Rigg ..	53	30th, 1st	29	26th, 27th	48·0	32·8	40·2	− 0·5	17	35	0	0·00	− 0·54	28·6	—	33	—	Aspatria.
	p Stonyhurst	59	1st	34	27th	48·8	38·8	43·7	+ 2·1	25	9	0	0·00	− 0·73	20·3	− 8·2	23	− 9	Newton Rigg.
	p Blackpool .. M	57	30th	32	26th, 27th	50·4	36·2	43·1	+ 0·7	32	16	1	0·07	− 0·43	24·0	− 3·9	27	− 4	Stonyhurst.
	p M'nch'ster, Prestwich	51	30th	32	26th	47·5	36·7	41·9	− 0·5	15	21	1	0·11	− 0·45	35·9	+ 7·5	41	+ 9	Blackpool.
	a Liverpool (Bidston)	54	1st	32	26th	49·7	37·3	43·3	− 0·6	29	13	2	0·24	− 0·17	*25·0*	+ *2·5*	*28*	+ *3*	*Prestwick.*
	a Hawarden Bridge ..	55	29th	32	26th	50·7	38·5	44·4	+ 0·2	32	10	1	0·10	− 0·23	*34·7*	—	*39*	—	*Liverpool.*
b, NORTH WALES ..	p Llandudno .. M	54	1st	37	26th, 27th	49·3	39·7	44·4	+ 0·4	26	6	1	0·21	− 0·26	*34·9*	+ *5·3*	*40*	+ *6*	*Southport.*
	a Holyhead	52	1st	36	26th, 27th	48·3	39·0	43·5	− 0·4	23	8	3	0·19	− 0·36	*35·1*		*40*	—	*Rhyl.*
	p Bettws-y-Coed ..	60	30th	33	26th	53·4	38·3	45·6	+ 1·7	41	10	3	0·35	—	35·6	+ 6·4	41	+ 7	Llandudno.
8. — a, SOUTH WALES ..	a Llangammarch Wells	54	1st	31	26th	50·1	35·4	42·5	+ 0·9	31	18	4	0·21	—	35·5	—	40	—	Aberdovey.
	a Pembroke	54	31st	33	26th, 27th	50·0	37·4	43·5	− 0·3	30	13	6	0·11	− 0·36	36·1	—	41	—	Bettws-y-Coed.
	p Cardiff	55	31st	32	26th, 28th	48·6	37·2	42·7	− 1·9	25	13	2	0·16	− 0·48	35·2	—	40	—	Aberystwyth.
															23·8	—	27	—	Llangammarch Wells.
															34·8	+ 1·0	40	+ 1	Pembroke.
															16·4	—	*19*	—	*Cardiff.*
															29·6	− *5·8*	*34*	− *7*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	58	31st	33	26th	49·6	37·7	43·5	− 1·0	29	12	2	0·20	− 0·32	*13·3*	—	*15*	—	*Clifton.*
	a Shaftesbury .. M	58	31st	30	26th	48·2	34·9	41·4	− 1·3	17	28	2	0·17	− 0·33	*	*	*	*	* *
	a Arlington	63	30th	32	26th	51·9	37·0	44·2	+ 1·6	36	14	2	0·37	− 0·40	27·6	− 6·2	32	− 7	Newquay.
	a Cullompton .. M	61	31st	34	26th	50·2	37·5	43·7	− 0·3	31	13	3	0·16	− 0·37	15·1	− 15·6	17	− 18	Cullompton.
	a Portland Bill ..	54	29th	33	26th, 27th	47·4	38·6	42·9	− 1·7	21	10	3	0·07	—	*18·6*	—	*21*	—	*Weymouth.*
	p Plymouth	59	31st	33	26th	51·9	40·2	45·9	+ 0·8	35	5	2	0·39	− 0·18	37·5	+ 4·2	43	+ 5	Plymouth.
	p Falmouth	53	1st	35	26th	48·1	41·4	44·7	− 0·4	21	2	5	0·27	− 0·40	23·3	− 11·4	27	− 13	Falmouth.
															27·1	—	*31*	—	*Salcombe.*
															23·8	*− 11·4*	*27*	*− 14*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	49	1st	35	26th	46·3	39·0	42·5	− 0·4	16	8	2	0·02	− 0·45	*	*	*	*	* *
	a Blacksod Point ..	52	29th, 1st	31	26th, 27th	48·4	35·9	42·0	− 2·7	18	17	0	0·00	− 0·79	*	*	*	*	* *
	p Markree Castle ..	55	1st	22	26th	49·8	36·2	42·8	0·0	30	16	3	0·42	− 0·25	17·1	− 10·2	19	− 12	Markree Castle.
	a Birr Castle	55	29th, 1st	25	26th	51·0	34·6	42·6	− 0·1	35	21	4	0·26	− 0·25	*22·5*	− *6·3*	*26*	− *7*	*Birr Castle.*
b, East.	p Armagh	52	30th	26	26th	48·6	36·0	42·1	− 0·6	26	17	1	0·13	− 0·37	16·0	− 10·9	18	− 12	Armagh.
	a Donaghadee	49	30th	37	27th	46·9	39·1	42·9	− 0·3	18	8	1	0·29	− 0·18	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	52	1st	36	26th	48·5	40·7	44·5	− 0·4	23	4	6	0·96	+ 0·53	24·2	− 7·2	28	− 8	Phœnix Park.
	a Kilkenny	58	30th	28	26th	50·9	37·7	44·1	+ 0·1	33	12	5	0·28	− 0·21	*	*	*	*	* *
	a Waterford	58	30th	30	26th	52·1	38·1	44·9	+ 0·7	37	11	4	0·33	− 0·28	*	*	*	*	* *
	a Birr Castle	55	29th, 1st	25	26th	51·0	34·6	42·6	− 0·1	35	21	4	0·26	− 0·25	22·5	− 6·2	26	− 7	Birr Castle.
b, West.	a Foynes	58	31st	31	26th	51·9	36·6	44·0	− 0·8	37	15	6	0·50	− 0·10	*	*	*	*	* *
	a Cahir .. .. M	55	31st	30	26th	50·7	36·2	43·2	− 0·6	33	16	6	0·37	—	*	*	*	*	* *
	a Killarney	61	31st	27	26th	53·1	35·6	44·1	− 0·9	42	18	4	0·57	− 0·38	*	*	*	*	* *
	a Valencia	60	31st	32	26th	51·6	36·6	43·9	− 2·0	36	15	3	0·84	− 0·13	38·8	+ 7·2	45	+ 8	Valencia.
	a Roche's Point ..	53	31st	32	26th	49·4	37·9	43·5	− 1·8	28	11	7	0·53	− 0·11	37·0	—	43	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	54	1st	33	27th	48·3	38·7	43·4	− 3·3	24	9	5	0·29	− 0·19	20·7	− 14·5	24	− 17	Scilly.
	a Jersey, St. Aubins ..	61	31st	37	26th, 27th	51·9	40·9	46·2	+ 0·1	34	3	4	0·42	− 0·08	20·7	− 16·6	24	− 19	St. Heliers.
	a Guernsey	61	1st	36	27th	51·1	41·2	46·0	− 0·2	31	2	5	0·76	+ 0·21	17·2	− 20·1	20	− 23	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 18·3 hrs. (− 15·4 hrs.), 21 % (− 18 %); Bournemouth, 21·0 hrs., 24 %; Bognor, 19·3 hrs., 22 %*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	—	40·8
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·6
	Crathes	1	25	40·3	39·8
	Balmoral	4	19	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	2	28	38·3	—
2.	Cockle Park	3	25	39·3	40·2
	Durham	2	25	—	—
	York	—	—	41·7	42·0
	Hull	1	29	41·4	42·0
	Lincoln	—	—	39·7	41·8
	Rauceby	3	28	41·2	43·0
3.	Norwich	2	25	—	—
	Yarmouth	—	—	41·3	43·9
	Lowestoft	0	35	42·1	42·6
	Cambridge	2	27	42·5	43·5
	Clacton-on-Sea ..	2	28	42·5	44·8
	Southend	2	29	42·7	—
	Tottenham	2	28	—	44·0
4.	Harrogate	3	25	39·6	40·9
	Huddersfield ..	2	29	39·7	41·0
	Buxton	2	25	38·9	41·0
	Sheffield	1	29	39·0	41·0
	Nottingham.. ..	1	27	39·8	40·3
	Birmingham.. ..	1	26	39·6	43·0
	Oxford	0	—	—	—
	Hereford	1	29	—	—
	Cirencester	1	27	40·9	42·8
	Bath	—	—	43·2	44·0
5.	Margate	1	—	41·8	43·3
	Greenwich	2	28	—	—
	Westminster ..	0	32	—	—
	Kew	2	30	41·6	43·7
	Canterbury	1	25	41·5	44·4
	Tunbridge Wells ..	2	26	41·6	—
	Wisley	2	27	41·8	43·1
	Worthing	1	30	44·0	44·9
	Portsmouth	0	32	44·5	45·9
6.	Glasgow	2	25	—	—
	Rothesay	—	—	—	42·2
	Colmonell	3	25	—	—
6.	Dumfries	5	25	40·3	41·7
	Douglas	1	29	—	—
7.	Aspatria	5	19	41·1	42·8
	Newton Rigg ..	4	22	40·0	40·9
	Burnley	3	26	39·4	41·0
	Southport	3	21	41·4	42·3
	Manchester City ..	0	31	40·3	42·9
	Bettws-y-Coed ..	0	31	41·4	43·0
8.	Llangammarch Wells	3	19	41·4	43·2
	Cardiff	1	29	41·3	42·9
	Clifton	1	29	—	—
	Plymouth	1	26	44·9	—
9.	Armagh	2	18	42·2	43·5
	Markree	2	16	43·4	44·5
10.	Dublin, Trin. Coll. ..	0	35	43·6	44·2
11.	Guernsey, Brooklyn	0	33	45·2	46·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·6
	Kirkwall	44	43	44·0
	Wick	44	43	43·5
SCOTLAND, E.	Cromarty	40	38	38·6
	Pennan Bay	42	40	41·4
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	39	38	38·7
	Scarborough	41	39	40·2
ENGLAND, E.	Shipwash Lightship ..	—	—	—
	Margate‡	43	41	41·9
ENGLAND, S.E.	Eastbourne‡	44	41	42·6
SCOTLAND, W.	Lamlash	44	43	43·9
	Ballantrae	44	43	43·7
ENGLAND, N.W.	Port Erin	46	42	43·9
ENGLAND, S.W.	Newquay	48	46	47·4
	Scilly	48	45	46·5
	Plymouth‡	46	45	45·4
	Salcombe	46	42	44·0
IRELAND, N.W.	Sheephaven	46	45	45·4
	Teelin	47	44	45·3
IRELAND, S.W.	Cleggan	47	42	44·6
	Seafield	49	44	46·3
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

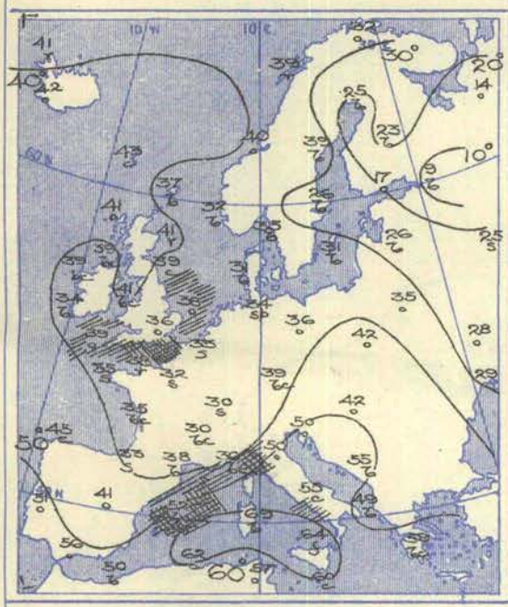
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 26th March, 1911.

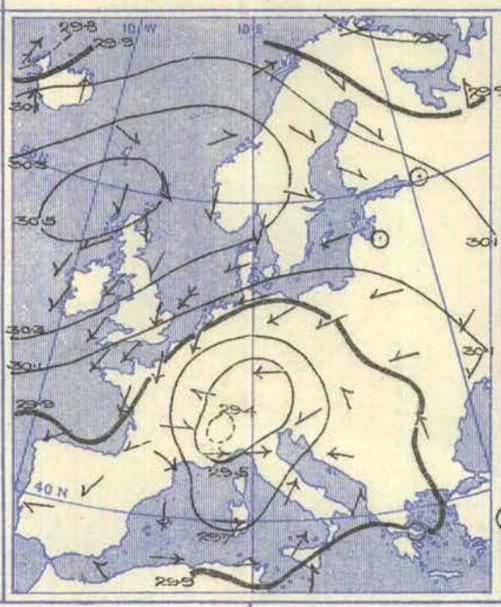
Temperature and Weather.

7 a.m.

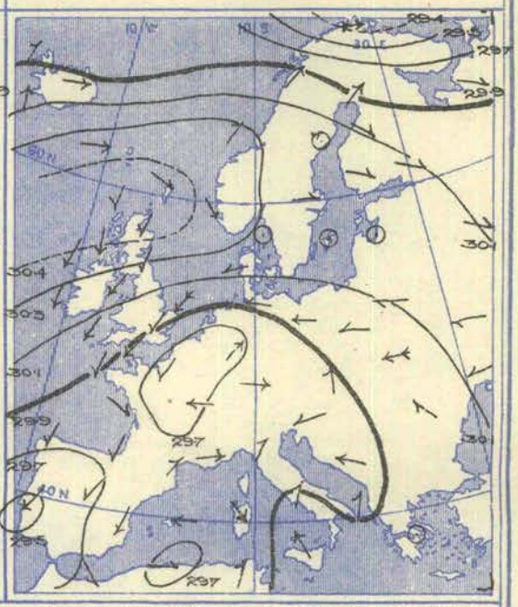


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine in the west of Ireland and over a large area in northern Europe, and also on the Riviera; cloudy or overcast in almost all other regions, with rain in the east of Scotland, snow at Spurn Head, at the mouth of the Elbe and in several parts of France, and rain at Bilbao, Barcelona, and Lugano. Heavy rain or snow later in the north-east of France and also at Carlsruhe, heavy rain in the south of Spain.

Temperature risen at many places in the north of Europe, fallen or changed irregularly elsewhere. Morning readings ranging from 64° at Palermo, 62° at Algiers, and about 60° at some other southern stations to below 40° over the major portion of the Continent and the United Kingdom and to below 32° in central Ireland, various French localities, and the east and north-east of our area; as low as 9° at St. Petersburg. Maxima during day below 40° at some places in the south-east of England and also at Paris, below 50° over nearly the whole of France and in Germany, above 60° at many places in the south of our area, and above 70° in Algeria.

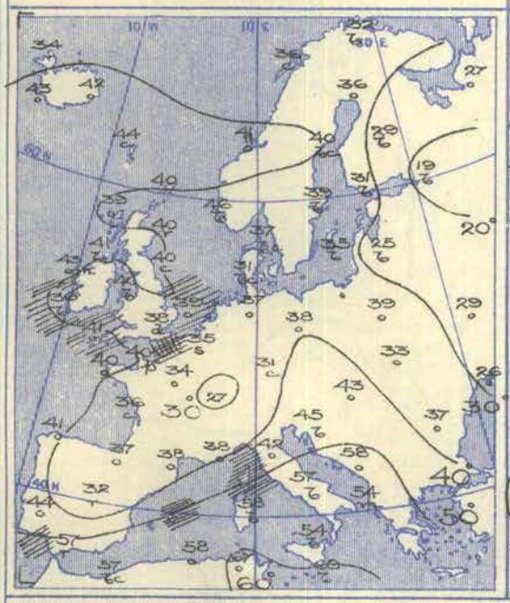
Wind in morning showing an extensive cyclonic circulation over the southern half of the Continent, and an anticyclonic movement in the north-west of our area. North-Easterly current strong to a gale in the south-east of this country and the adjacent regions of the Continent, and that from the Westward fresh to strong on some shores of the Mediterranean. Strong South-Westerly winds and gales prevailing in Iceland and a strong South-West breeze at Bodö. Gale continuing throughout the day in the south-east of this country, a high wind from West setting in at Munich and from East at Oporto. A strong gale from West at Vardö.

Barometer in morning above 30·5 in. in a high pressure system centred near the Hebrides, and relatively high thence to central Russia. Below 29·4 in. in a large depression having its minimum near Turin, and below 29·8 in. in the extreme north-west and north of our area. Main depression decreasing in intensity during day and moving northward, but another system in the far south-west of Europe becoming more marked. A large disturbance moving eastward in the extreme north, and pressure rising again in Iceland.

Monday, 27th March, 1911.

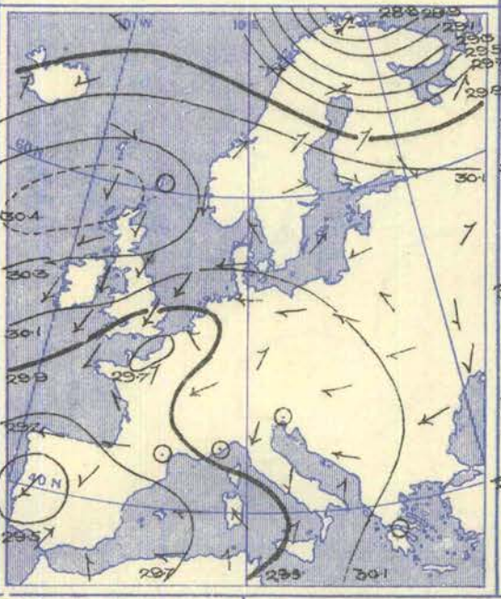
Temperature and Weather.

7 a.m.

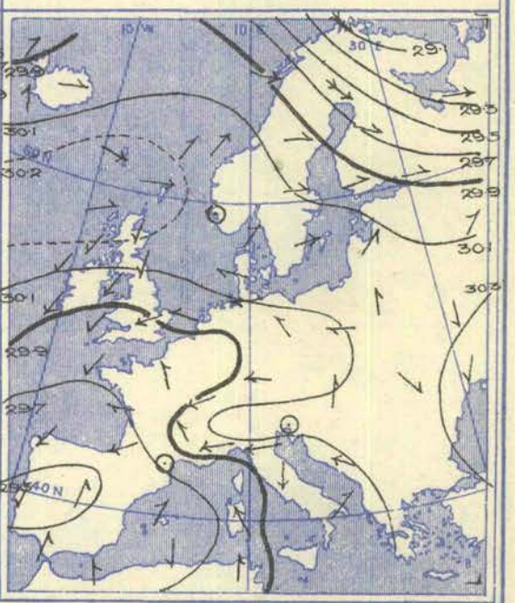


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast, with rain in places, in the eastern half of Great Britain and the adjacent portion of the Continent, as well as in the Spanish Peninsula; fair to fine in the west and north-west of these Islands and over large areas on the Mediterranean and over Scandinavia. Dull in central Europe and Russia. Rain experienced later in the south of Ireland and most of Great Britain, but quantity not large. Heavy rain falling in the south of Spain and considerable amounts in the north of Italy.

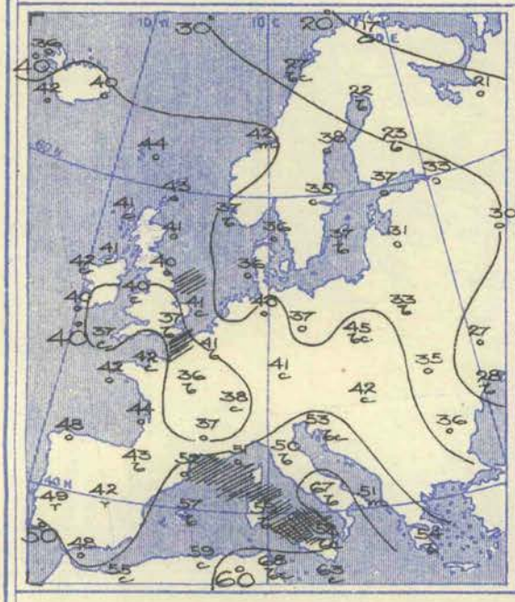
Temperature risen in Scandinavia, Finland, and northern Russia, and slightly in most parts of these Islands; fallen at most stations in central and southern Europe. Morning readings ranging from 67° at Cape de Garde and above 55° at several other places in the extreme south to below 32° in central Ireland, some parts of France and Bavaria, and over a wide area in northern and eastern Europe. Maxima during day about 50° in the west of these Islands, but only about 40° in the south-east of England. Thermometer rising to 82° at Cape de Garde and Tunis, to 83° at Palermo, and to 70° at Naples, but only touching 41° at Turin.

Wind in morning fresh to high from the North-Eastward over the south-east and south of England and the nearer regions of the Continent, and light or moderate from that point in the north of these Islands. A cyclonic circulation of moderate to strong breezes prevailing over the Spanish Peninsula, and a South-Westerly wind, strong to a gale, in Scandinavia. Decreasing in force during day both in this country and over Spain, but increasing in some parts of northern Europe and veering towards North-West.

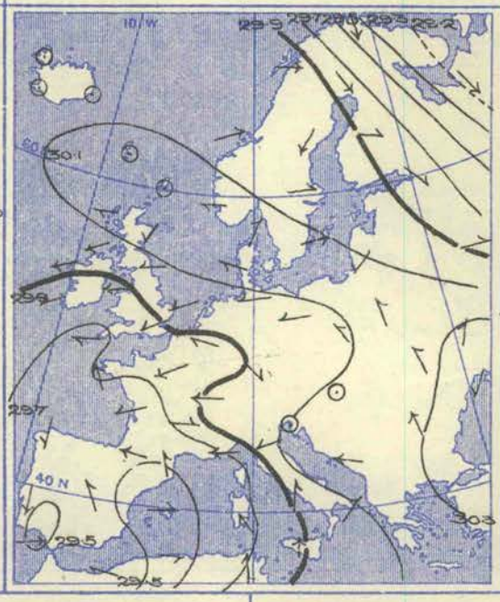
Barometer in morning above 30·3 in. over and to the north-westward of Scotland. Relatively low in disturbances over France and the Spanish Peninsula, and below 28·8 in. in a very large depression in the extreme north of our area. Latter system travelling eastward during day, the French depression becoming less well marked, and that in Spain undergoing some modification in form. Pressure giving way steadily within the high pressure system.

Tuesday, 28th March, 1911.

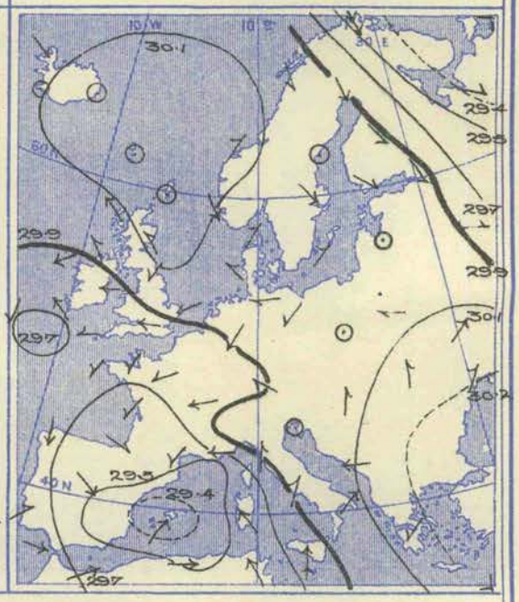
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in nearly all parts of these Islands and the Spanish Peninsula, with rain at several stations in the latter region, and also at Roche's Point. Fair or fine in most other parts of our area, but foggy or misty in Holland and Denmark. Considerable falls of rain later in the south-west of Ireland, at Biarritz, and in some localities in the Peninsula, and about an inch at Oran.

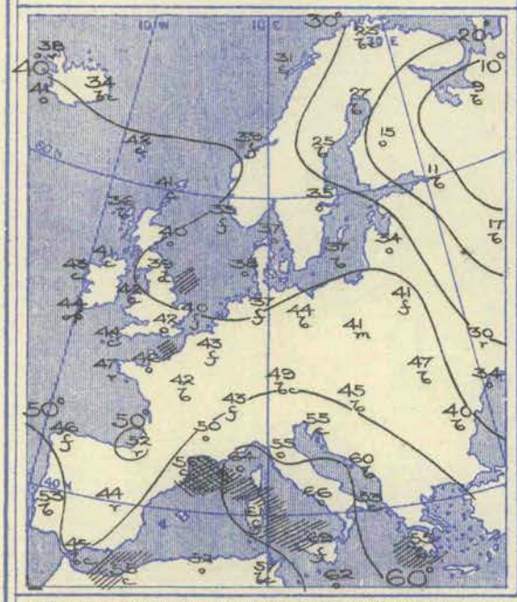
Temperature risen in France and at some stations in the Baltic region; fallen in most other districts. Morning readings ranging from 78° at Tunis, 67° at Naples and about 60° at some other extreme southern stations to 40° or below in many parts of these Islands and over large areas on the Continent, and to below 20° in the far north of Finland and Norway. Rising to about 55° during day in the south of England, to above 60° in many parts of France and central Europe, and to above 70° on some shores of the Mediterranean. Highest values, 78° at Rome and 79° at Palermo.

Wind in morning light to moderate or fresh from East and North-East over these Islands, the Netherlands, and France, drawing into North in Portugal, West in the south of Spain and Algeria, and into South in Italy and the Italian Islands; a high wind prevailing at Palermo. A gale from North-West blowing at Vardö and moderate breezes from that direction in Finland and northern Russia. Increasing greatly in force later from South and South-East over the Mediterranean and Italy, and blowing a strong gale at Palermo.

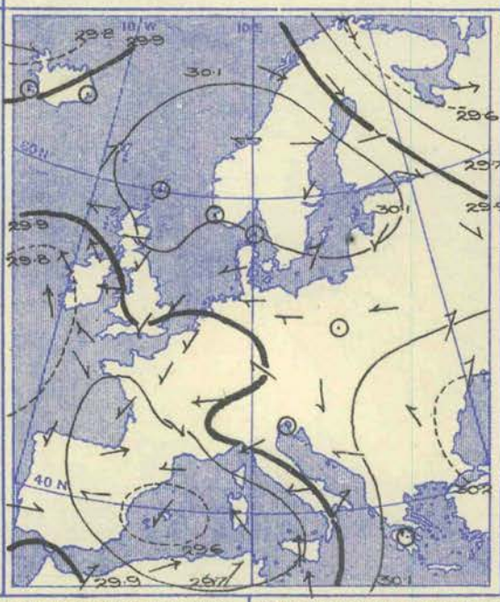
Barometer in morning above 30·3 in. over the Black Sea, and relatively high thence to Iceland; below 29·2 in. in a depression in the region of the White Sea, and below 29·5 in. in a complex system in the south-west of our area. Northern depression travelling eastward during day, but that in the south-west increasing in depth and becoming modified in form. Gradient growing very steep in places to the eastward of the baric minimum. A shallow depression lying to the south-west of Ireland by evening.

Wednesday, 29th March, 1911.

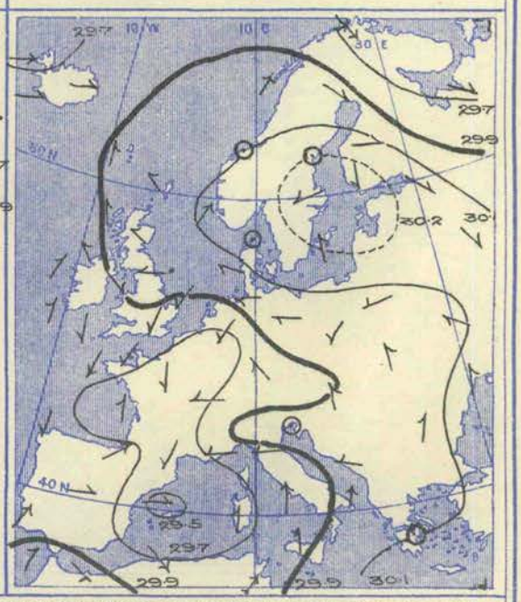
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in the north-east of our area and in a few places elsewhere, but very cloudy or overcast generally, with rain in the south-west of Ireland at the mouth of the Tyne, in some parts of France and the Spanish Peninsula, and snow at Bodö. Much mist and fog on the coasts of England, the north-east of France, and the Netherlands. Some rain later in the west of these Islands and in most French localities, as well as at Turin and the north of Spain. More than 0·5 in. in the south of France and at Barcelona and 1·5 in. at Turin.

Temperature changed irregularly; risen over France, fallen decidedly in the north of Russia. Readings in morning 9° at Archangel, below 20° over a large area in Russia and Finland; above 40° in some parts of the United Kingdom and over the major portion of the Continent, about 60° at several Mediterranean stations, and as high as 69° at Palermo. Rising to about 50° during day in various parts of these Islands, and touching 55° at Nairn and at some of our south and south-west stations. Maxima above 70° in many parts of central Europe and in a few Italian localities, as well as at Charleville, and to 68° at Brussels.

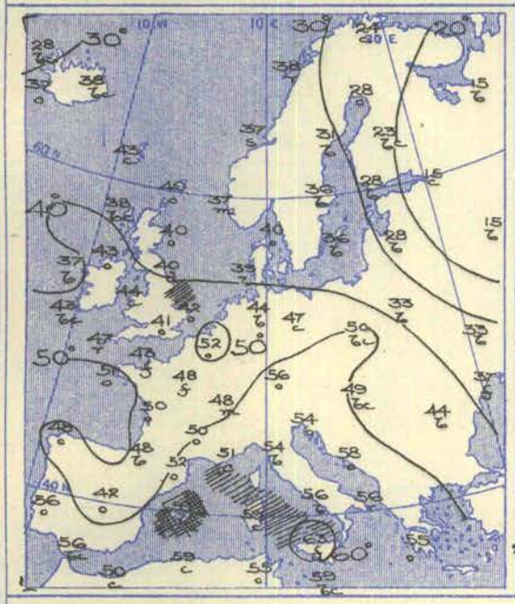
Wind in morning showing a cyclonic circulation over the Mediterranean, the Westerly current blowing very strongly in Algeria and the south-east of Spain, a strong gale from South prevailing at Palermo, and strong to high winds from South-East and East in Sardinia, Corsica, and on the Riviera. A North-Westerly current, strong to a gale, general in the north of Scandinavia, and moderate breezes—mainly between North-East and East—in these Islands. Decreasing in force over most parts of the Mediterranean during day, but increasing to a gale from the Southward at Sfax.

Barometer in morning below 29·5 in. in a large depression centred over the Balearic Islands and relatively low off the west of Ireland and the extreme north of the Continent. Above 30·2 in. in an anticyclone over the Black Sea region, and nearly as high in a large area over Scandinavia. Pressure becoming highest over the upper part of the Baltic by evening, but a decided fall of the barometer occurring in Iceland. Southern depression undergoing considerable modification in form, but little in intensity.

Thursday, 30th March, 1911.

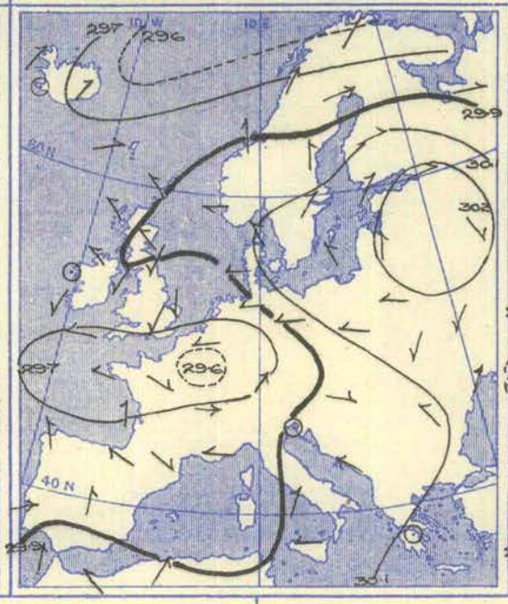
Temperature and Weather.

7 a.m.

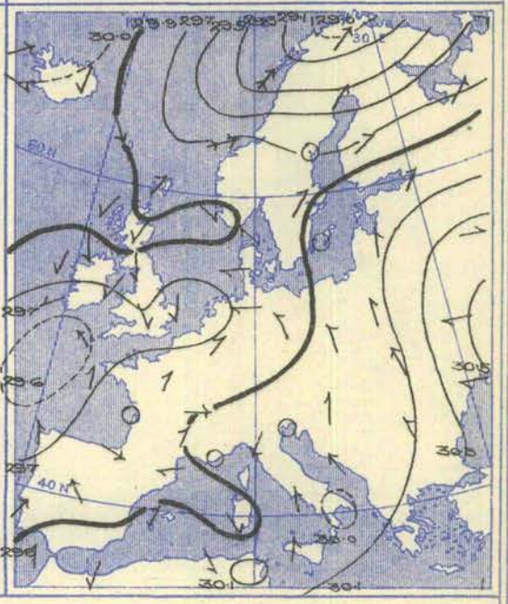


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over a large area in Russia and the Baltic and at several stations on the shores of the Mediterranean; cloudy or dull generally elsewhere, with rain in a few parts of these Islands, in the north of Italy, at Sanguinaire and Brindisi, as well as at Bodö. Snow falling at Christiansund. A good deal of fog and mist prevailing on the shores of the North Sea and Channel. Rain later in Ireland and various parts of Britain, more than an inch at Rome, and considerable falls in other parts of Italy and at San Fernando.

Temperature changed rather irregularly generally; risen in Germany, fallen in many parts of southern Europe. Readings in morning about 50° over a wide area in central Europe and France, and about 60° at many stations in the south; below 40° over a large portion of Britain and northern Europe, and below 20° in the north of Russia. Remaining below 50° throughout the day in most parts of these Islands, but rising to above 70° in Germany and Austria-Hungary, and also at Utrecht and on some shores of the Mediterranean.

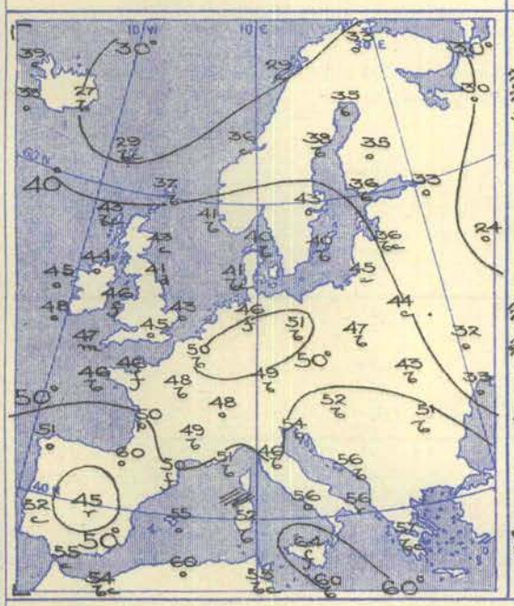
Wind in morning mainly cyclonic except over Russia and its immediate vicinity. A fresh to strong breeze from the Southward prevailing at a few places in the far south of our area, but little force generally. Northerly to North-Easterly current over the United Kingdom light or moderate. Shifting to South-East or South-West by evening along the south coast of England and the north coast of France. Increasing to a gale from the South-Westward on the north-west coast of Norway, and to a high wind from South-South-East at Toulouse.

Barometer in morning above 30·3 in. in a well marked anticyclonic system having its maximum over Russia; below 29·7 in. in a depression between Portugal and the Azores, and in another in the extreme north of our area, and below 29·6 in. in a shallow disturbance over Belgium and the north-east of France. Northern disturbance moving eastwards later and becoming deeper, and the other depressions taking up a position further north. Anticyclone receding south-eastwards and increasing in intensity.

Friday, 31st March, 1911.

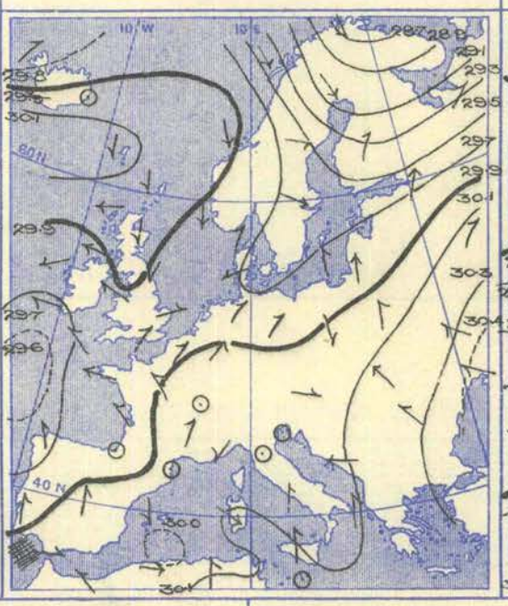
Temperature and Weather.

7 a.m.

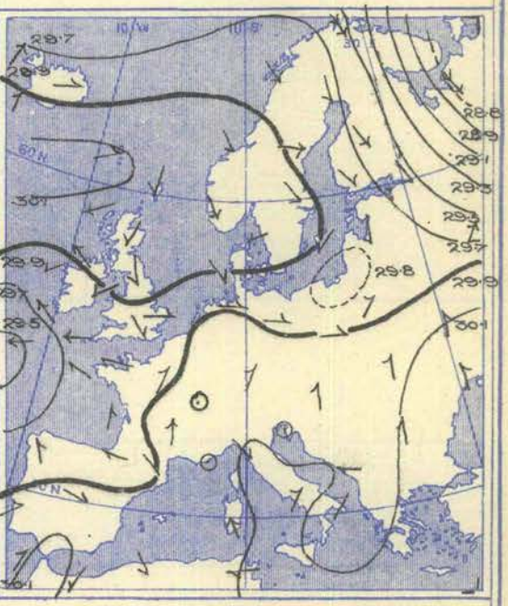


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning varying a good deal; fair to fine and bright at several stations in the south of our area and in different localities elsewhere, but mainly very cloudy or overcast, with rain at a few widely scattered stations and snow at Bodö. A little rain later here and there in these Islands and on the Continent, a thunderstorm in some parts of France, with heavy hail at Rochefort.

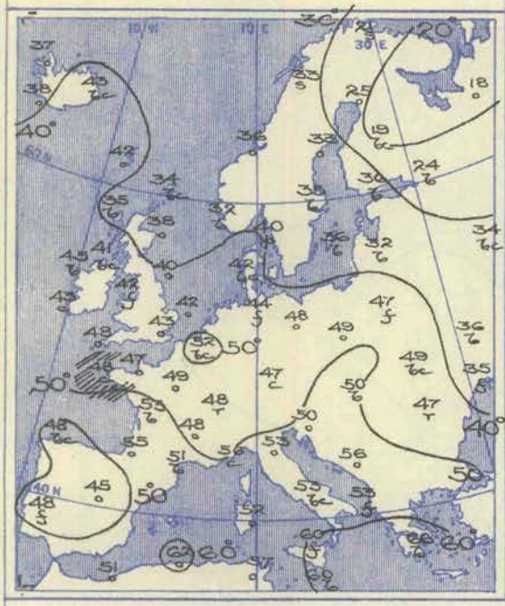
Temperature risen in most regions, but changes rather irregular. Morning readings ranging from 60° or above at some places in the extreme south of our area to below 50° generally, and to below 32° over a considerable area in Russia. Maxima during day between 55° and 60° on some parts of our southern and south-western coasts, above 60° over the greater portion of France, central, and southern Europe, as high as 70° at Hermanstadt, and 77° at Tunis. Thermometer remaining below 50° in the east and north of England, and only touching 43° at Spurn Head and 41° at Harrogate.

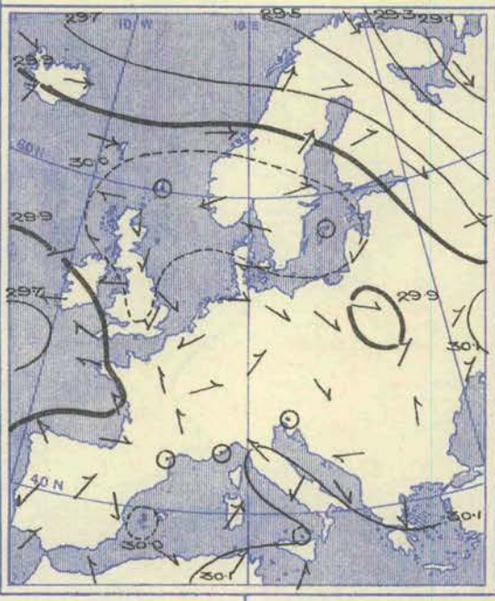
Wind in morning fresh or strong to a gale from the North-Westward over Scandinavia, moderate from the Southward in Finland and northern Russia. Light to moderate between East and North in nearly the whole of this country, but light and variable or South-Westerly in the south of England. Light breezes from various quarters prevailing over the central countries and in most parts of southern Europe. Gale from the North-Westward extending to Archangel by evening. No great change occurring over our area as a whole.

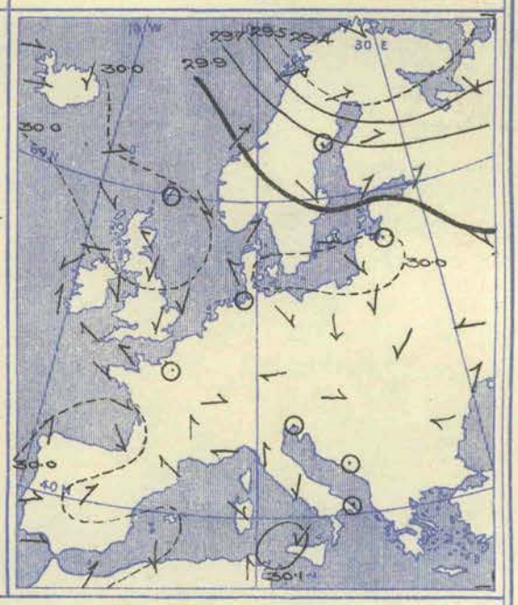
Barometer in morning above 30·5 in. in the south of Russia, and above 30·1 in. in the neighbourhood of the Faroe. Below 28·7 in. in a large depression in the extreme north of our area, and below 29·7 in. in a large, shallow system to the south-west of this country. Smaller depressions of little depth shown over Denmark and the Mediterranean region. Northern disturbance moving eastward during day, but little alteration taking place in the general distribution of pressure.

Saturday, 1st April, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning very cloudy or overcast in these Islands and the major portion of the Continent, but bright over the Baltic region and a large part of Russia. Rain falling at some English Channel stations, at Belfort and Cracow, and snow in the north of Scandinavia. Continuous rain later in the south-east of England and in some French localities, and thunderstorms at Clermont and Puy de Dôme. Smaller amounts in Belgium and central Europe.

Temperature fallen in most regions. Morning readings ranging from about 60° at a few places in the extreme south to 50° or a little lower in the central countries, to below 40° in the north of these Islands, and to below 20° in Finland and northern Russia. Maxima during day about 55° at several places in the south and south-west of this country, but below 45° in the north-east. Thermometer rising to above 60° over nearly the whole of southern Europe and at some German stations and touching 69° at Palermo.

Wind in morning mainly Westerly in the north of our area, moderate generally, but strong in places, and blowing a high wind at Archangel. Very light over France, the south-east of England and throughout central and southern Europe, and showing partial or complete cyclonic circulations. No change of importance occurring during day.

Barometer in morning above 30·1 in. in Italy and south-eastern Europe, and above 30·0 in. over most of Great Britain, southern Scandinavia, and the Baltic. Below 29·7 in. in a depression off the south-west of this country, and relatively low in an irregularly shaped area extending thence to central Europe and western Russia. Below 29·1 in. in the far north of Russia. No great change later in the general distribution of pressure; barometer rising decidedly in Iceland, changing very little in Great Britain and the nearer regions of the Continent.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,206 ft.)	At Greatest Height.	Remarks.
1	1911. March 28th, 12.39 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	—°, 0		100°, 5·5	128°, 9·0	140°, 10·0	155°, 10·0		Metres. 2,000	One theodolite. Rates of ascent 2·0 m.p.s. assumed. 4 ci.-st.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites..	—
Area of Surface (sq. metres) ..	—
Capacity of Balloon (cub. metres)	·013
Length of Wire (metres)	—

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

113

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 14. FOURTEENTH WEEK, SUNDAY, APRIL 2ND, TO SATURDAY, APRIL 8TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather. After heavy rain in the S.E. of England at the beginning of the week, the general character of the weather became very wintry. In the north-eastern, eastern and southern parts of Great Britain squalls or heavy showers of snow were very frequent and widespread. In Ireland, Wales and the west and north-west of England the weather remained mostly dry, and towards the end it improved in the east and south also.

Temperature was much below the average, the deficit being more than 8° in England S.E., nearly 7° in England E., S.W. and the English Channel, about 6½° in the Midland Counties, and about 5° in Ireland and most other parts of Great Britain. In Scotland the divergence from the normal was less. The highest of the maxima, occurred at most stations on the 2nd, but at several places in the south-east and east they were registered on the 8th. They ranged from 59° in Ireland S. and 58° in England S.W. and Scotland N. to 49° in England E. During the middle of the week the thermometer remained abnormally low over the eastern and southern counties of England, barely exceeding 32° at a few places. Maxima so low have not been previously recorded in April. At Tunbridge Wells on the 5th the maximum reading was only 31°. The lowest of the minima, which were generally recorded either on the 5th or 6th, ranged from 17° in Scotland E. (at West Linton), and 20° in Scotland W. to 26° in England N.E. and N.W. and to 28° in the English Channel. The lowest grass readings reported were 14° at Armagh and Markree, 15° at Llangammarch Wells and Dumfries, 16° at Colmonell, and 17° at Balmoral.

Mean Temperature of the Sea. At all stations except Sheephaven the water was colder than during the corresponding week of last year, more than 3° at Salcombe and Margate, and nearly 5° at Cromarty. The means for the week ranged from above 47° at Newquay and Scilly to 39° at Cromarty and Burnmouth.

Rainfall was less than the average in all districts except the English Channel. In Scotland, Ireland and the north-west of England the fall was very slight and at some stations in Ireland and the west of Scotland there was no precipitation. The snow measurements in England were rather considerable in the north-east, south-east and south, and very heavy in Guernsey. In that island several inches of snow covered the ground, and the fall of the 5th and 6th yielded 0·8 inch to 0·9 inch of water in the gauge. At Tunbridge Wells the combined fall of the 4th and 5th yielded 0·65 inch.

Bright Sunshine was less than the normal over the Kingdom generally, but equal to it in England E., and above it in Scotland W. and England N.W. The percentage of the possible duration ranged from 42 in Scotland W., 40 in England E., 39 in England S.W. and 38 in Ireland S. to 27 in the Midland Counties and to 25 in Scotland N. and E.

Barometer and Wind. A type of pressure distribution favourable for winds between North and North-East or East prevailed throughout the week, and as the gradient was rather steep for a time over England, the North Sea, and the Channel the wind was often fresh or strong in force. During the prevalence of the snow showers on Monday to Thursday the squalls attained the force of a high wind or gale on many parts of the coast and at exposed places inland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 116.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient	Deficient
	Rainfall ...	Very light	Light	Moderate	Moderate	Light	Moderate	Very light	Very light	Light	Very light	Light	Moderate
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 5 weeks from Mar. 5th, 1911.	Warmth ...	0 * 1	0 * 2	0 * 1	0 * 1	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 1	0 * 3	0 * 1
	Rainfall ...	1 * 4	1 * 3	1 * 3	1 * 0	1 * 1	2 * 0	0 * 4	0 * 3	2 * 3	0 * 4	1 * 2	2 * 0
	Sunshine ...	3 * 1	1 * 3	0 * 3	0 * 2	0 * 4	0 * 3	2 * 1	1 * 0	0 * 1	2 * 1	2 * 0	0 * 2

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

9538 / 450 Wy. & S., Ltd. 4–11

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FOURTEENTH WEEK—April 2nd to April 8th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	58	24	45·8	32·8	39·0	- 2·0	11	- 9	33	+ 8	3	- 1	0·04	-0·74	23	- 7	25	- 8
Eastern																		
1. SCOTLAND, EAST	55	17	44·7	31·8	37·9	- 3·5	8	- 18	35	+ 9	4	0	0·17	-0·27	25	- 8	27	- 8
2. ENGLAND, N.E.	51	26	43·3	32·6	37·7	- 4·8	4	- 21	32	+13	5	+ 1	0·31	-0·07	30	- 5	33	- 6
3. ENGLAND, EAST	49	22	42·4	32·1	37·0	- 6·8	1	- 33	33	+13	4	+ 1	0·32	-0·02	36	0	40	0
4. MIDLAND COUNTIES	55	22	42·7	31·7	37·4	- 6·4	5	- 31	35	+14	2	- 1	0·11	-0·30	25	- 8	27	- 9
5. ENGLAND, S.E.	51	24	42·0	32·3	36·9	- 8·3	0	- 37	36	+24	4	+ 1	0·27	-0·05	29	- 6	32	- 7
Western																		
6. SCOTLAND, WEST	56	20	47·5	31·9	39·3	- 3·5	15	- 11	36	+17	1	- 2	0·01	-0·66	38	+ 4	42	+ 4
7. ENGLAND, N.W.	54	26	44·5	32·7	38·3	- 5·4	7	- 21	32	+16	2	- 2	0·05	-0·47	33	+ 4	37	+ 5
8 ENGLAND, S.W.	58	22	44·7	32·7	38·4	- 6·9	8	- 27	32	+22	2	- 1	0·15	-0·39	35	- 1	39	- 1
9. IRELAND, NORTH	54	22	45·9	33·1	39·2	- 4·8	11	- 19	32	+17	1	- 3	0·01	-0·57	26	- 6	29	- 6
10. IRELAND, SOUTH	59	23	47·8	33·7	40·4	- 5·2	16	- 22	31	+21	2	- 1	0·11	-0·51	35	- 1	38	- 1
11. ENGLISH CHANNEL	55	28	45·5	36·3	40·7	- 6·9	10	- 32	21	+19	5	+ 2	0·46	+0·04	31	- 11	34	-12

THE SEASON (Spring).—Aggregates, &c., for the Period of 5 Weeks, March 5th to April 8th, 1911.

0. SCOTLAND, NORTH	58	22	*	*	*	*	43	- 24	155	+ 9	15	- 9	2·05	-2·76	138§	+19	33	+ 5
Eastern																		
1. SCOTLAND, EAST	55	17	*	*	*	*	28	- 65	164	+ 6	21	+ 1	1·62	-0·90	114	-20	27	- 5
2. ENGLAND, N.E.	55	26	*	*	*	*	26	- 77	152	+ 7	22	+ 4	1·79	-0·18	110	-40	26	- 9
3. ENGLAND, EAST	63	22	*	*	*	*	43	- 90	137	+ 4	22	+ 6	2·46	+0·72	115	-36	27	- 9
4. MIDLAND COUNTIES	59	22	*	*	*	*	45	- 93	146	+11	17	+ 1	1·66	-0·30	92	-43	22	-10
5. ENGLAND, S.E.	62	24	*	*	*	*	71	- 69	116	+20	20	+ 5	2·72	+0·79	116	-33	28	- 8
Western																		
6. SCOTLAND, WEST	58	20	*	*	*	*	76	- 19	141	+25	10	-10	0·74	-3·10	144	+ 6	34	+ 2
7. ENGLAND, N.W.	60	26	*	*	*	*	62	- 42	117	+14	14	- 5	1·03	-1·65	139	+10	33	+ 2
8. ENGLAND, S.W.	63	22	*	*	*	*	78	- 60	109	+29	17	- 1	2·71	-0·24	157	-14	33	- 3
9. IRELAND, NORTH	55	22	*	*	*	*	75	- 42	120	+23	12	-10	0·84	-2·18	135	+ 5	32	+ 1
10. IRELAND, SOUTH	61	23	*	*	*	*	106	- 45	108	+34	19	0	2·19	-1·09	151	+ 3	36	+ 1
11. ENGLISH CHANNEL	62	28	*	*	*	*	125	- 40	50	+22	27	+ 8	3·44	+1·03	144	-37	34	- 9

THE YEAR.—Aggregates, &c., for the Period of 14 Weeks, January 1st to April 8th, 1911.

0. SCOTLAND, NORTH	58	14	*	*	*	*	132	+ 5	374	-102	61	- 9	14·36	-1·31	224§	+ 17	24	+ 2
Eastern																		
1. SCOTLAND, EAST	59	11	*	*	*	*	113	- 48	448	- 87	55	0	5·95	-1·56	257	- 1	27	0
2. ENGLAND, N.E.	58	19	*	*	*	*	150	- 33	353	- 73	50	- 1	4·30	-1·06	244	- 33	25	- 3
3. ENGLAND, EAST	63	16	*	*	*	*	155	- 68	390	- 82	58	+ 8	5·72	+0·61	262	- 29	27	- 3
4. MIDLAND COUNTIES	60	14	*	*	*	*	167	- 75	390	- 81	44	- 5	4·23	-1·91	221	- 34	23	- 3
5. ENGLAND, S.E.	62	16	*	*	*	*	174	- 84	343	- 12	49	+ 2	5·84	-0·54	262	- 15	27	- 2
Western																		
6. SCOTLAND, WEST	58	18	*	*	*	*	199	+ 15	323	- 55	50	-10	10·13	-2·56	254	+ 10	26	+ 1
7. ENGLAND, N.W.	60	17	*	*	*	*	173	- 25	301	- 53	46	- 9	6·32	-2·03	265	+ 23	27	+ 2
8. ENGLAND, S.W.	63	13	*	*	*	*	191	- 98	282	+ 3	50	- 4	7·68	-2·27	279	- 7	28	- 1
9. IRELAND, NORTH	58	18	*	*	*	*	228	- 14	288	- 26	49	-15	6·24	-3·31	267	+ 19	28	+ 2
10. IRELAND, SOUTH	61	18	*	*	*	*	295	- 42	279	+ 40	56	- 1	7·13	-3·70	290	+ 6	30	+ 1
11. ENGLISH CHANNEL	62	28	*	*	*	*	313	- 71	131	+ 24	60	0	6·91	-1·41	302	- 47	30	- 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only
§ The corresponding value for Report No. 13 slightly altered owing to the receipt of further information.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*50*	*6th*	*28*	*2nd*	*44·2*	*34·2*	*39·0*	—	*6*	*27*	*6*	*6·10*	—	*23·1*	—	*25*	—	*Baltasound.*
	a Sumburgh Head ..	53	8th	28	4th, 5th	44·3	32·3	38·0	− 2·0	6	33	0	0·00	− 0·55	31·6	+ 1·3	34	+ 1	Deerness.
	a Stornoway	52	7th	30	3rd, 4th	47·3	34·1	40·4	− 1·2	15	29	5	0·08	− 0·69	25·0	− 6·8	27	− 7	Stornoway.
	a *Castlebay, Barra Isd.*	*50*	*6th*	*32*	*4th*	*46·6*	*36·9*	*41·5*	− *2·9*	*13*	*19*	*2*	*0·04*	—	*37·0*	—	*40*	—	*Castlebay.*
	a Wick	58	8th	29	3rd	47·1	33·4	39·9	− 1·6	14	31	6	0·06	− 0·41	*	*	*	*	* *
	b, Mainland. — p Strathpeffer..	51	8th	28	6th	45·3	33·9	39·3	− 2·4	9	29	1	0·01	− 0·46	17·6	−10·5	19	−11	Strathpeffer.
	p Glencarron .. S	49	2, 7, 8th	26	6th	45·6	30·6	37·7	− 2·8	10	40	1	0·09	− 1·34	*	*	*	*	* *
	p Fort Augustus S	50	2nd	24	6th	44·3	33·4	38·6	− 3·1	6	30	4	0·08	− 0·55	18·2	− 4·8	20	− 5	Fort Augustus.
	p Fort William S	51	2nd	26	6th	46·7	31·8	38·9	− 3·6	13	37	1	0·02	− 1·12	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	49	8th	26	6th	44·6	32·1	38·1	− 4·3	7	35	4	0·18	− 0·27	*21·3*	—	*23*	—	*Gordon Castle.*
	a Nairn	50	8th	26	6th	45·0	31·9	38·1	− 3·7	8	35	4	0·20	− 0·13	18·5	—	20	—	Nairn.
	a Aberdeen	49	2nd	30	6th	45·7	34·0	39·6	− 2·5	10	29	4	0·16	− 0·31	24·8	− 7·5	27	− 8	Aberdeen.
	a Balmoral .. S	53	2nd	21	6th	46·9	29·0	37·5	− 0·9	14	46	4	0·19	− 0·36	21·8	—	24	—	Crathes S.
	p Crieff .. .. S	55	7th	26	6th	47·6	31·3	39·1	− 3·6	16	39	1	0·01	− 0·57	31·6	—	34	—	Balruddery.
	a Leith	51	2nd	32	6th	44·9	34·9	39·7	− 3·6	8	25	5	0·11	− 0·19	*	*	*	*	* *
	p West Linton.. S	47	2nd	17	6th	40·7	28·7	34·4	− 5·5	0	53	7	0·21	—	*22·5*	—	*25*	—	*West Linton.*
	p Marchmont .. S	45	2nd, 3rd	28	5th	42·0	32·1	36·8	− 4·2	0	36	4	0·28	− 0·24	26·1	− 3·3	29	− 4	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	47	2nd	29	2nd	43·2	33·0	37·9	− 4·0	3	31	6	0·42	− 0·05	29·1	—	32	—	Cockle Park.
	a Shields	47	7th	28	5th, 6th	43·0	31·7	37·1	− 5·5	3	35	6	0·42	+ 0·10	*21·2*	− *2·2*	*23*	− *2*	*Newcastle.*
	p Durham	45	2nd, 7th	28	2nd	41·6	31·9	36·5	− 5·4	0	39	5	0·34	− 0·01	25·6	− 3·1	28	− 3	Durham.
	p Rounton .. M	46	2nd, 7th	26	5th	41·8	31·8	36·6	− 5·2	0	38	6	0·34	− 0·10	*	*	*	*	* *
	p Scarborough.. M	50	2nd, ? 8th	30	5th	44·4	35·4	39·7	− 3·3	7	23	4	0·21	− 0·19	39·0	—	43	—	Scarborough.
	p York	50	7th	29	5th	44·6	32·7	38·4	− 5·3	7	33	4	0·32	− 0·07	29·4	+ 1·4	32	+ 2	York.
	b, South. — a Spurn Head ..	46	8th	30	5th, 6th	42·6	34·6	38·4	− 4·8	2	25	3	0·13	− 0·14	*	*	*	*	* *
	a Lincoln	49	8th	27	5th	43·7	31·7	37·4	− 6·5	5	35	3	0·37	+ 0·04	31·1	—	34	—	Skegness.
	a Fulbeck	51	8th	27	6th	44·4	31·0	37·4	− 6·3	7	38	4	0·24	− 0·12	28·2	—	31	—	Rauceby.
															37·4	—	*41*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	45	5th	22	5th	42·3	31·6	36·9	− 5·5	2	35	4	0·19	—	31·2	—	34	—	Cromer.
	p Hillington .. M	47	8th	27	5th	43·9	31·3	37·3	− 6·4	5	37	4	0·25	− 0·14	27·8	− 3·6	31	− 4	Hillington.
	a Yarmouth	44	3rd, 8th	27	6th	41·1	33·1	36·9	− 5·7	0	36	5	0·37	+ 0·03	39·6	—	44	—	Yarmouth.
	a Norwich	46	8th	27	6th	42·3	32·2	37·0	− 6·1	1	33	4	0·45	—	*	*	*	*	* *
	p Geldeston	46	2rd, 8th	27	5th	41·5	32·1	36·6	− 6·8	0	38	5	0·26	− 0·10	38·2	+ 4·2	42	+ 5	Geldeston.
	p Cambridge	48	8th	26	6th	43·0	31·9	37·2	− 7·0	3	34	3	0·14	− 0·18	40·7	+ 7·4	45	+ 8	Cambridge.
	a *Felixstowe*	*48*	*8th*	*26*	*6th*	*42·0*	*31·7*	*36·6*	− *7·0*	*0*	*38*	*5*	*0·32*	—	*40·0*	—	*44*	—	*Felixstowe.*
	b, South. — a Clacton-on-Sea ..	49	8th	25	6th	42·1	32·0	36·8	− 6·5	0	33	4	0·33	—	36·9	—	41	—	Clacton.
	a Rothamsted ..	48	8th	26	6th	42·5	32·1	37·1	− 6·3	1	34	3	0·47	+ 0·09	34·0	+ 2·5	38	+ 3	Rothamsted.
	a *Shoeburyness* ..	*50*	*8th*	*27*	*5th, 6th*	*42·0*	*32·6*	*37·1*	− *7·9*	*0*	*34*	*5*	*0·27*	+ *0·01*	*29·8*	—	*33*	—	*Southend.*
	p Tottenham	49	8th	27	5th, 6th	42·7	32·2	37·2	− 7·3	2	33	3	0·39	—	40·0	—	44	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	47	2nd	26	5th	41·4	31·3	36·1	− 6·1	0	41	5	0·41	− 0·05	33·8	—	37	—	Harrogate.
	a Bawtry	50	2nd, 8th	28	6th, 7th	45·1	30·7	37·6	− 6·1	9	40	2	0·10	− 0·23	21·0	− 6·7	23	− 7	Worksop.
	p *Buxton* .. M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*Buxton.*
	a Nottingham ..	48	2nd, 8th	27	6th	43·4	32·6	37·7	− 5·9	4	32	2	0·09	− 0·25	25·6	—	28	—	Nottingham.
	p Birmingham, Edgbsn	47	8th	27	5th, 6th	42·0	31·5	36·5	− 6·9	0	39	3	0·06	− 0·36	10·3	—	11	—	Birmingham.
	a Raunds .. M	50	8th	26	6th	43·9	31·0	37·1	− 6·3	5	37	4	0·09	—	*	*	*	*	* *
	a Oxford	50	8th	26	6th	43·9	32·6	38·0	− 6·5	5	32	3	0·23	− 0·09	29·6	− 1·8	33	− 2	Oxford.
	b, West. — a Cheadle .. M	46	8th	22	4th	42·6	30·4	36·2	− 6·2	2	39	1	0·04	− 0·44	15·6	—	17	—	Sheffield.
	a Shrewsbury	55	2nd	27	8th	46·2	31·1	38·3	− 6·4	12	39	1	0·02	—	*	*	*	*	* *
	a Hereford .. M	54	2nd	27	6th	45·0	32·2	38·3	− 6·2	8	34	2	0·03	− 0·36	*	*	*	*	* *
	a Cirencester	47	2nd	25	6th	42·3	30·9	36·3	− 6·8	1	37	1	0·05	− 0·36	28·9	− 3·3	32	− 4	Cirencester.
	a Bath	54	2nd	27	6th	45·1	34·1	39·3	− 5·4	9	28	2	0·04	− 0·43	33·1	—	37	—	Bath.
															36·4	—	*40*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	49	8th	27	5th	41·7	32·7	37·0	− 7·9	0	35	5	0·36	0·00	25·5	− 4·9	28	− 6	Kew.
	a Marlborough ..	48	8th	25	6th, 8th	42·4	31·0	36·4	− 6·5	1	37	2	0·05	− 0·43	22·1	− 7·1	25	− 8	Marlborough.
	a Margate	45	3rd	29	5th, 6th	41·5	33·6	37·4	− 6·9	0	32	4	0·26	− 0·05	32·2	− 0·6	36	− 1	Margate.
	a Wisley, Surrey ..	49	8th	26	6th	41·6	32·2	36·7	− 8·5	0	37	3	0·33	—	26·8	—	30	—	Wisley.
	a Swarraton .. M	49	8th	26	6th	42·2	31·5	36·6	− 7·1	1	35	4	0·22	− 0·23	30·1	—	33	—	Worthing.
	a Tunbridge Wells M	47	8th	24	6th	39·9	30·5	35·0	− 9·1	0	49	4	0·72	+ 0·29	23·1	−10·5	26	−12	Tunbridge Wells.
	a Dungeness	47	8th	30	6th, 8th	42·1	33·1	37·4	− 6·7	0	30	5	0·20	− 0·15	33·1	—	37	—	Littlestone.
	p Hastings	47	8th	27	5th, 6th	41·6	32·3	36·7	− 8·3	0	37	4	0·32	− 0·10	*30·3*	− *6·4*	*34*	− *7*	*Hastings.*
	p Southampton ..	51	8th	27	6th	43·9	32·5	37·9	− 9·6	5	32	3	0·16	− 0·28	30·6	− 4·1	34	− 5	Southampton.
	a Ventnor	49	8th	27	6th	43·2	33·7	38·2	− 7·9	3	28	3	0·11	− 0·29	34·4	− 4·1	38	− 5	Ventnor.
															30·8	− 5·5	34	− 6	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*51*	*8th*	*28*	*6th*	*43·6*	*34·3*	*38·7*	− *6·2*	*4*	*26*	*3*	*0·27*	− *0·08*	*26·0*	+ *4·0*	*29*	+ *5*	*Westminster.*
	a *Greenwich*	*51*	*8th*	*27*	*6th*	*43·1*	*32·7*	*37·7*	− *7·5*	*3*	*32*	*4*	*0·35*	*0·00*	*29·7*	+ *0·5*	*33*	+ *1*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	56	7th	23	6th	50·6	29·4	39·5	− 3·3	24	47	0	0·00	− 0·67	*	*	*	*	* *
	p Glasgow	53	2nd	30	6th	45·9	34·7	40·0	− 2·4	11	26	1	0·01	− 0·49	31·6	+ 6·4	35	+ 7	Glasgow.
	p Rothesay .. S	56	2nd	29	6th	49·4	34·6	41·6	− 1·8	21	28	1	0·01	− 0·68	*	*	*	*	* *
	a Kilmarnock	54	2nd	20	6th	46·9	29·9	38·0	− 4·7	14	43	0	0·00	—	*29·3*	—	*52*	—	*Kilmarnock.*
	a Colmonell .. S	50	2nd	20	6th	47·2	29·9	38·1	− 5·4	15	43	1	0·01	− 0·63	*	*	*	*	* *
	p Dumfries .. S	53	2nd	24	6th	46·0	30·0	37·6	− 5·4	11	42	1	0·01	− 0·55	*34·3*	—	*38*	—	*Dumfries.*
	p Cally, Gatehouse S	52	2nd	26	6th	48·5	31·7	39·7	− 3·1	18	38	1	0·01	− 0·75	*	*	*	*	* *
	b, ISLE OF MAN .. — p Douglas	51	2nd	32	6th	45·4	35·2	40·1	− 3·3	10	23	1	0·01	− 0·60	44·7	+ 7·7	49	+ 8	Douglas.
															33·7	—	37	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	53	2nd	28	4, 5, 6th	44·9	31·4	37·8	− 4·5	8	37	3	0·08	− 0·47	29·6	—	33	—	Aspatria.
	p Newton Rigg ..	51	2nd	26	5th	43·7	30·7	36·9	− 4·8	5	39	2	0·04	− 0·49	31·9	+ 0·9	35	+ 1	Newton Rigg.
	p Stonyhurst	49	2nd	27	6th	43·6	32·2	37·6	− 4·9	4	33	4	0·14	− 0·53	31·1	+ 0·8	34	+ 1	Stonyhurst.
	p Blackpool .. M	50	8th	26	6th	45·7	32·2	38·6	− 4·7	10	34	3	0·06	− 0·41	41·7	+11·6	46	+13	Blackpool.
	p M'nch'ster, Prestwich	47	2nd	28	5th, 6th	43·5	32·4	37·7	− 5·4	4	33	3	0·08	− 0·44	*22·1*	− *1·9*	*25*	− *2*	*Prestwich.*
	a Liverpool (Bidston)	53	2nd	28	6th	44·7	33·1	38·6	− 5·9	8	31	1	0·02	− 0·38	*34·8*	—	*38*	—	*Liverpool.*
	a Hawarden Bridge ..	50	2nd	28	7th	45·1	32·1	38·3	− 7·0	9	35	1	0·01	− 0·31	*39·1*	+ *6·7*	*43*	+ *7*	*Southport.*
															40·0	—	*44*	—	*Rhyl.*
	b, NORTH WALES .. — p Llandudno .. M	49	2nd	33	5, 6, 8th	44·3	35·7	39·8	− 5·0	6	22	2	0·02	− 0·42	37·3	+ 5·6	41	+ 6	Llandudno.
	a Holyhead	50	2nd	32	6th	43·6	36·3	39·8	− 4·8	4	20	1	0·02	− 0·50	36·5	—	40	—	Aberdovey.
	p Bettws-y-Coed ..	54	3rd	27	6th, 7th	45·6	31·1	38·0	− 6·7	10	38	1	0·02	—	25·4	—	28	—	Bettws-y-Coed.
															36·1	—	40	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	54	2nd	22	4th	44·1	28·7	36·0	− 6·6	6	45	4	0·08	—	21·7	—	24	—	Llangammarch Wells.
	a Pembroke	53	2nd	28	6th	46·7	35·4	40·8	− 3·8	13	25	3	0·03	− 0·45	28·5	− 8·0	32	− 9	Pembroke.
	p Cardiff	54	2nd	27	5th, 6th	44·5	32·1	38·0	− 7·7	7	34	1	0·07	− 0·55	*29·0*	—	*32*	—	*Cardiff.*
															39·2	+ *1·2*	*44*	+ *1*	*Tenby.*
	b, ENGLAND, S.W. .. — a Clifton	54	2nd *	27	6th	44·9	33·8	39·1	− 6·1	8	29	2	0·19	− 0·33	*24·7*	—	*27*	—	*Clifton.*
	a Shaftesbury .. M	50	2nd	23	6th	41·7	30·6	35·9	− 7·5	0	43	2	0·27	− 0·24	*	*	*	*	* *
	a Arlington	53	2nd	27	4, 6, 8th	44·0	32·1	37·8	− 5·9	6	34	1	0·03	− 0·70	43·8	+ 7·8	49	+ 9	Newquay.
	a Cullompton .. M	58	2nd	25	8th	46·2	32·3	38·9	− 6·0	12	34	4	0·17	− 0·35	27·1	− 5·5	30	− 6	Cullompton.
	a Portland Bill ..	51	8th	28	6th	43·9	35·0	39·2	− 6·3	5	24	1	0·26	—	*33·0*	—	*37*	—	*Weymouth.*
	p Plymouth	53	2nd	28	6th	45·8	32·7	38·9	− 7·1	11	33	2	0·27	− 0·27	41·2	+ 5·8	46	+ 7	Plymouth.
	p Falmouth	52	2nd	29	6th	44·7	34·6	39·4	− 6·5	8	26	2	0·10	− 0·54	45·7	+ 8·7	51	+10	Falmouth.
															32·9	—	*37*	—	*Salcombe.*
															32·6	− *4·3*	*36*	− *5*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	48	8th	30	6th	45·1	36·3	40·5	− 3·1	9	21	0	0·00	− 0·45	*	*	*	*	* *
	a Blacksod Point ..	49	2nd, 8th	29	4th	46·1	34·9	40·2	− 4·8	11	26	1	0·01	− 0·72	*	*	*	*	* *
	p Markree Castle ..	52	2nd	22	6th	48·0	30·2	38·7	− 5·0	17	43	0	0·00	− 0·64	28·6	− 1·1	31	− 1	Markree Castle.
	a Birr Castle	54	2nd	23	4th	46·0	29·0	37·1	− 6·6	11	46	0	0·00	− 0·50	*26·5*	− *4·7*	*29*	− *5*	*Birr Castle.*
	b, East. — p Armagh	52	2nd	23	6th	45·8	30·8	37·9	− 5·7	11	39	1	0·03	− 0·47	23·3	− 6·0	26	− 7	Armagh.
	a Donaghadee	48	2nd	35	6th	44·6	37·3	40·8	− 3·1	7	17	1	0·03	− 0·43	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	51	2nd	32	4th	45·5	36·7	40·9	− 4·9	10	20	3	0·08	− 0·35	25·7	− 8·0	28	− 9	Phœnix Park.
	a Kilkenny	53	2nd	28	4th	46·0	33·3	39·4	− 5·3	11	32	3	0·09	− 0·41	*	*	*	*	* *
	a Waterford	56	2nd	29	6th	48·1	33·9	40·7	− 4·1	17	31	3	0·25	− 0·38	*	*	*	*	* *
	a Birr Castle	54	2nd	23	4th	46·0	29·0	37·1	− 6·6	11	46	0	0·00	− 0·50	26·5	− 4·7	29	− 5	Birr Castle.
	b, West. — a Foynes	54	2nd, 3rd	29	6th	49·1	33·9	41·1	− 4·6	20	31	2	0·02	− 0·56	*	*	*	*	* *
	a Cahir .. .. M	55	2nd	28	4, 5, 6th	47·7	33·3	40·2	− 4·2	16	32	2	0·04	—	*	*	*	*	* *
	a Killarney	59	2nd	25	6th	51·0	32·2	41·2	− 4·4	25	38	1	0·01	− 0·88	*	*	*	*	* *
	a Valencia	54	8th	30	6th	48·9	35·4	41·8	− 4·6	19	25	0	0·00	− 0·95	54·7	+21·4	61	+24	Valencia.
	a Roche's Point ..	51	2nd, 3rd	30	6th	47·7	35·4	41·3	− 4·7	16	25	6	0·51	− 0·14	32·4	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	51	2nd	30	6th	46·1	35·9	40·8	− 6·4	11	23	3	0·17	− 0·30	40·9	+ 3·5	45	+ 4	Scilly.
	a Jersey, St. Aubins ..	55	2nd	28	6th	45·7	36·6	40·9	− 5·9	10	20	7	0·25	− 0·25	31·0	− 8·7	34	−10	St. Heliers.
	a Guernsey	53	2nd	29	6th	44·7	36·5	40·4	− 6·6	8	20	5	0·95	+ 0·39	29·9	−19·1	23	−21	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 28·8 hrs.* (− *7·2 hrs.*), *32* % (− *8* %); *Bournemouth, 30·6 hrs., 34* %; *Bognor,* *hrs.*, %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	39·7	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	41·3
	Crathes	5	20	40·5	40·7
	Balmoral	5	17	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	?	?	39·0	—
2.	Cockle Park	5	23	38·6	40·7
	Durham	5	23	—	—
	York	—	—	41·5	42·7
	Hull	5	26	40·7	42·0
	Lincoln	—	—	39·8	42·0
	Rauceby	7	29	41·5	43·1
3.	Norwich	5	24	—	—
	Yarmouth	—	—	41·1	44·0
	Lowestoft	3	26	41·7	43·1
	Cambridge	5	20	42·4	44·0
	Clacton-on-Sea ..	5	24	42·3	45·1
	Southend	5	23	41·9	—
	Tottenham	5	23	—	44·7
4.	Harrogate	7	23	39·8	41·2
	Huddersfield ..	5	23	39·8	41·0
	Buxton	—	—	—	—
	Sheffield	4	25	39·1	41·2
	Nottingham.. ..	4	25	39·2	40·9
	Birmingham.. ..	6	22	39·6	43·0
	Oxford	5	23	—	—
	Hereford	6	22	—	—
	Cirencester	5	22	41·3	43·0
	Bath	—	—	—	—
5.	Margate	3	—	41·5	43·5
	Greenwich	4	23	—	—
	Westminster ..	4	24	—	—
	Kew	5	22	41·0	44·0
	Canterbury	4	27	41·7	45·0
	Tunbridge Wells ..	5	20	40·9	—
	Wisley	5	22	40·3	43·5
	Worthing	5	23	42·7	45·3
	Portsmouth	4	25	43·1	46·1
6.	Glasgow	6	21	—	—
	Rothesay	—	—	—	43·0
	Colmonell	6	16	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	6	15	40·9	42·0
	Douglas	2	27	—	—
7.	Aspatria	6	18	41·4	43·0
	Newton Rigg ..	6	20	40·6	41·2
	Burnley	7	19	39·4	41·2
	Southport	7	19	40·9	43·1
	Manchester City ..	3	26	40·1	43·3
	Bettws-y-Coed ..	4	25	41·0	44·0
8.	Llangammarch Wells	?6	15	41·0	43·7
	Cardiff	5	24	41·7	43·5
	Clifton	5	24	—	—
	Plymouth	5	20	44·3	—
9.	Armagh	6	14	41·9	44·0
	Markree	5	14	43·2	44·8
10.	Dublin, Trin. Coll. ..	6	23	42·6	44·9
11.	Guernsey, Brooklyn	2	26	45·1	46·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	43	43·0
	Kirkwall	44	39	41·0
	Wick	?44	?43	?43·3
SCOTLAND, E.	Cromarty	40	38	38·7
	Pennan Bay	42	40	41·3
	Aberdeen, Cove Bay ..	42	42	42·0
ENGLAND, N.E.	Burnmouth, Berwick ..	40	39	39·4
	Scarborough	44	37	40·8
ENGLAND, E.	Shipwash Lightship ..	43	40	41·3
	Margate‡	44	40	42·0
ENGLAND, S.E.	Eastbourne‡	44	40	42·3

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	44	44	44·0
	Ballantrae	44	42	43·3
ENGLAND, N.W.	Port Erin	45	42	43·7
ENGLAND, S.W.	Newquay	48	47	47·5
	Scilly	50	42	47·3
	Plymouth‡	46	46	45·8
	Salcombe	47	39	43·9
IRELAND, N.W.	Sheephaven	47	46	46·3
	Teelin	47	44	45·5
IRELAND, S.W.	Cleggan	46	40	44·4
	Seafield	50	43	46·7
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," E l. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫—> = a heavy gale (Forces 10-12 Beaufort Scale); >—> = a gale (Forces 8 and 9); ——> = a moderate breeze to high wind (Forces 4 to 7); ——> a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

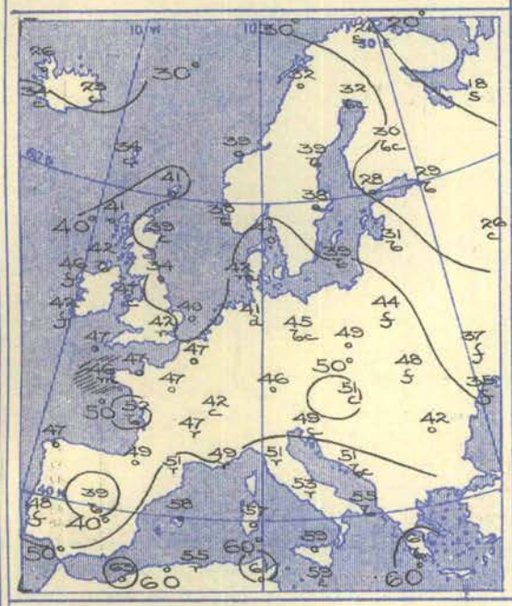
The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

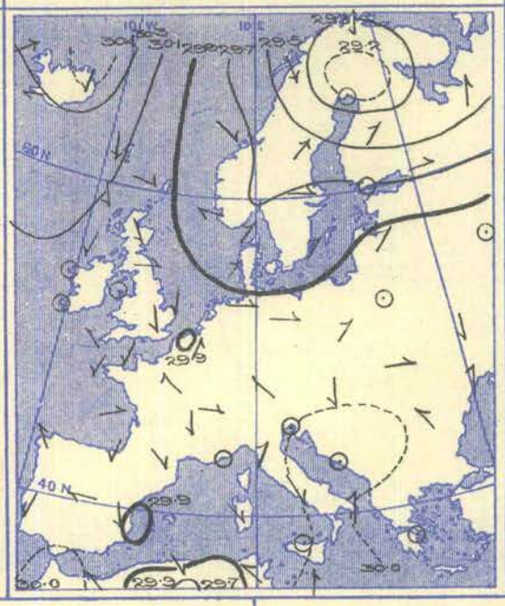
☞ The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 2nd April, 1911.

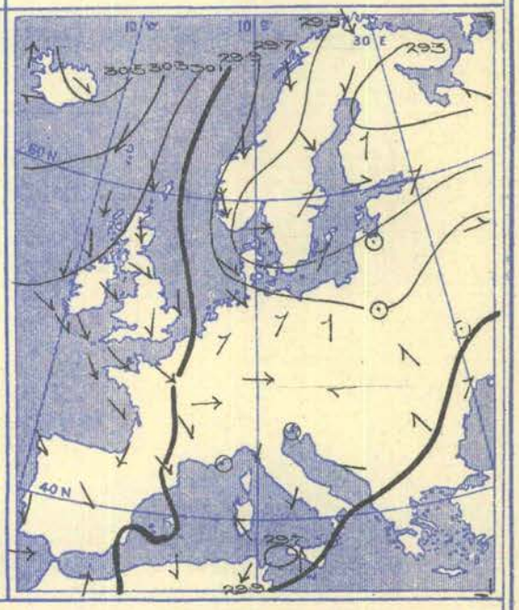
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally cloudy or overcast in these Islands, with rain in the south-east of England; rainy in Italy and the south of France, and also at Algiers, and cloudy or overcast in most other parts of our area, with snow in the extreme north. Rain continuing during the greater part of the day in the south-east of England and some rain experienced in several other parts of these Islands, as well as in places over a wide area on the Continent. A thunderstorm occurring at Nantes and Cape de Garde.

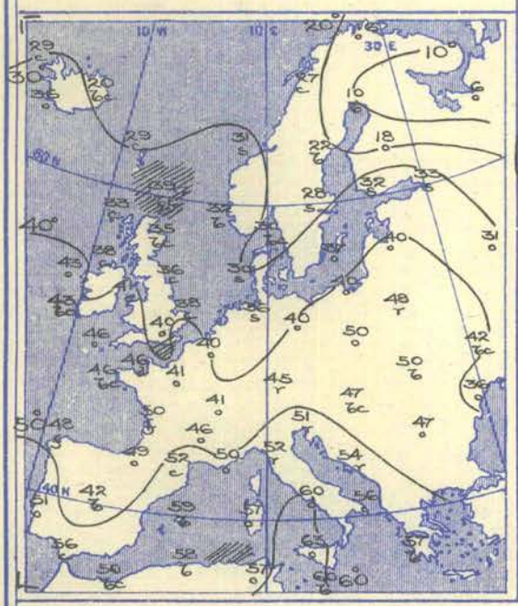
Temperature risen in Finland and Scandinavia, fallen generally elsewhere. Morning readings ranging from about 20° in the north of Russia to about 40° in these Islands and Holland, 50° in central Europe, southern France, and in Italy, and to 60° at some stations in Algeria. Remaining below 50° during day over a large portion of England, but rising to above 60° in central Europe and in many French localities, as well as in the south of Europe. Touching 76° at Palermo and 79° at Tunis. Frost at night in some parts of these Islands.

Wind in morning very light and rather variable, but mainly from the Northward over the United Kingdom, and light and variable over the central and southern countries. A cyclonic circulation of light to fresh winds prevailing over Scandinavia and Finland. Becoming more generally Northerly later in day over these Islands, the North Sea region, and France, and increasing to a gale at Skudesnaes. Increasing to a strong breeze from different directions on some shores of the Mediterranean.

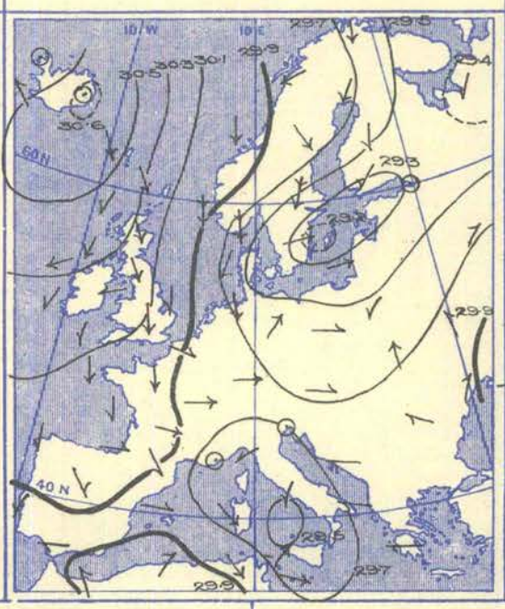
Barometer in morning above 30·3 in. in Iceland; below 29·2 in. in a well marked depression over the extreme north of Sweden, and relatively low in England, France, and the Netherlands, as well as in a large depression of little depth between Portugal and the Azores. Northern disturbance travelling Eastward during day, and anticyclone increasing in intensity and extending Southward and South-Eastward. A secondary depression developing over the south of Scandinavia, and another arriving over Algeria and Tunis from the Southward. Atlantic low pressure system moving Southward.

Monday, 3rd April, 1911.

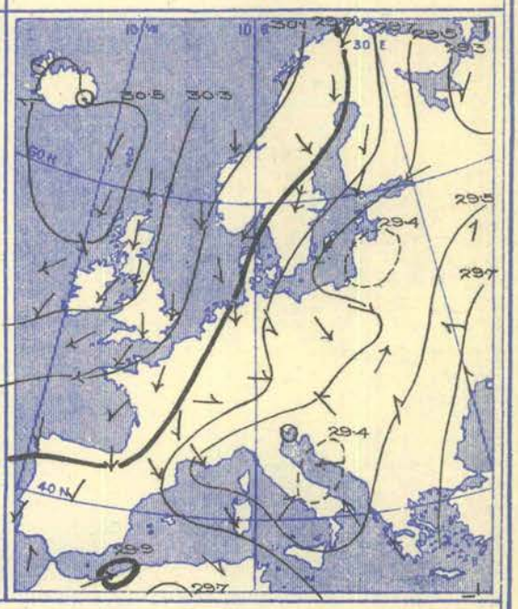
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud, over our area generally, and rainy in some parts of Italy, Germany, and these Islands, and snow falling in several northern regions of the Continent. Fair to bright in Algeria and in a few other districts. Heavy rain later in Italy and its vicinity and also at Biarritz, and smaller quantities in places over a large portion of our area. Frequent snow showers in various parts of these Islands.

Temperature fallen generally. Morning readings ranging from about 60° at a few stations in the far south to below 40° in most parts of these Islands, to below 20° at most places in the north-east of Europe, and to 6° at Archangel. Maxima during day below 45° at many of our own stations and in the Netherlands, but above 50° in central Europe and most of France, and above 60° over a considerable portion of the Mediterranean region. Thermometer touching 70° at Bucharest, and rising to above 70° at some Algerian stations.

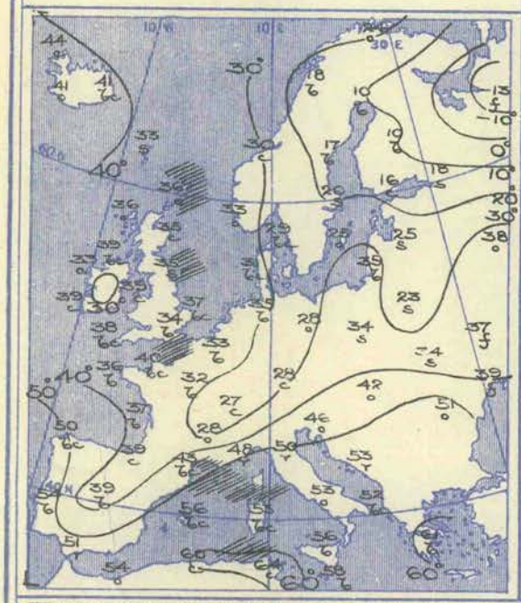
Wind in morning strong to a strong gale from the Northward in Scandinavia and Denmark and fresh to strong or high from that quarter over the North Sea region. A fresh breeze from the North-West prevailing at some stations on the shores of the Mediterranean, and very light breezes from between West and South-West in central Europe and Russia. Not much change occurring during day; increasing in force at some places in these Islands and France, and becoming rather more North-Easterly in the south-west of England.

Barometer in morning above 30·6 in. in the east of Iceland; below 29·2 in. in a depression centred over Gothland, below 29·5 in. in a shallower disturbance between Sicily and Italy, and nearly as low near Funchal. Northern depression moving South-Eastward later and becoming less deep, and that in the south moving North-Eastward and increasing in depth. Anticyclonic centre taking up a position further south, and pressure rising over the United Kingdom.

Tuesday, 4th April, 1911.

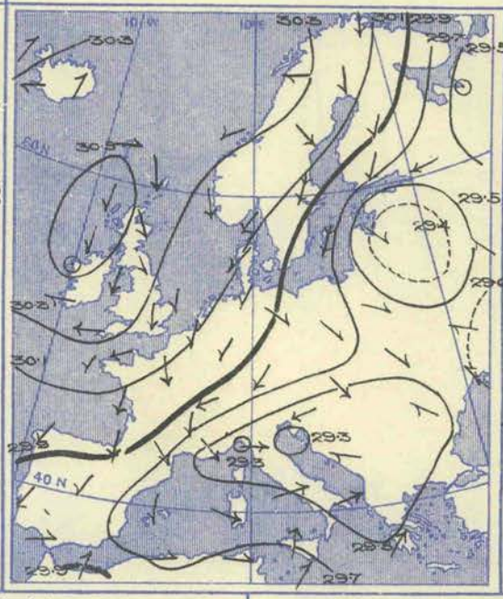
Temperature and Weather.

7 a.m.

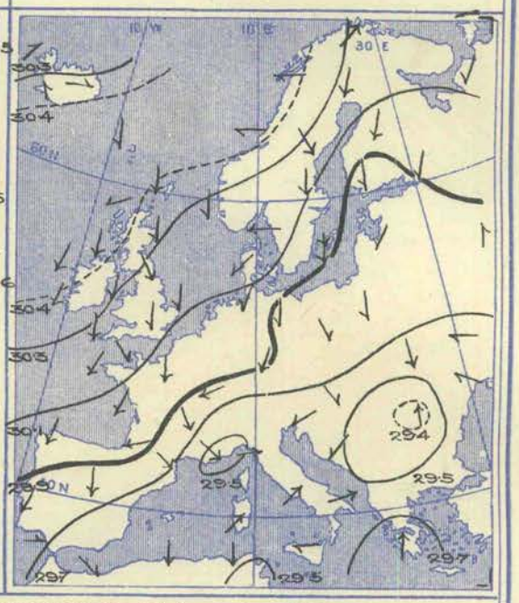


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine in most parts of these Islands, but snow falling at North Shields. Varying greatly elsewhere; fair over a large area, but snow prevailing at several northern and central stations, and rain in Italy and the Adriatic, as well as at Gibraltar and Funchal. Snow showers later in most parts of Britain and the north of France, and rain in several districts of southern Europe and in Algeria. More than an inch of rain and snow measured at Turin, and an inch of rain at Barcelona. Snow at Biarritz and a few flakes at Perpignan.

Temperature fallen generally, risen in Iceland and the north of Scotland. Readings in morning as low as − 13° at Archangel and below 20° in Finland and Sweden; only 25° at Birr Castle. Below 32° in Germany and central France. Above 50° on most shores of the Mediterranean, and about 60° on the coast of Algeria. Maxima during day very little above 40° over these Islands and the nearer regions of the Continent, and below it in Germany and Poland. Thermometer remaining below 50° at some places in the south of France, but rising above 60° at several stations further to the Southward, and to 73° at Tunis. Frost at night over a very large area in these Islands and on the Continent.

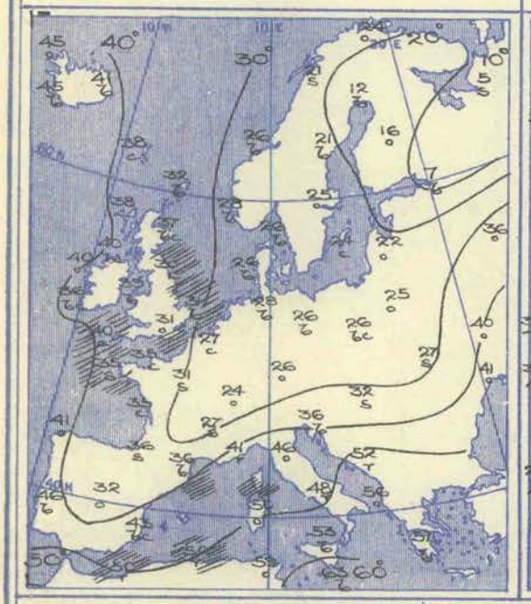
Wind in morning anticyclonic in the north-west of our area, cyclonic elsewhere. Northerly current strong to a gale over Sweden and the Baltic, moderate to fresh in England, and moderate to strong or high in France. A strong Westerly breeze prevailing in some parts of Italy. No change of importance occurring during day.

Barometer in morning above 30·5 in. in a large anticyclone centred to the westward of Scotland; below 29·4 in. in a well marked depression in the west of Russia, and in another system covering much of Italy and south-eastern Europe. Gradient very steep over Switzerland and the south-east of France. Russian depression undergoing partial dispersal during day, and that in the south becoming much modified in form. Pressure giving way slightly within the high pressure area.

Wednesday, 5th April, 1911.

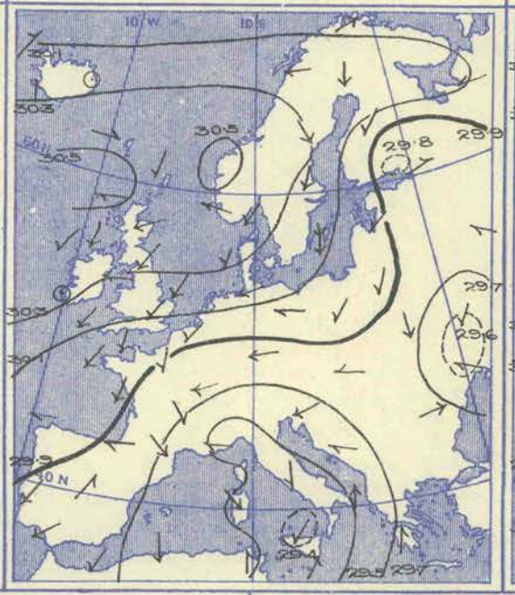
Temperature and Weather.

7 a.m.

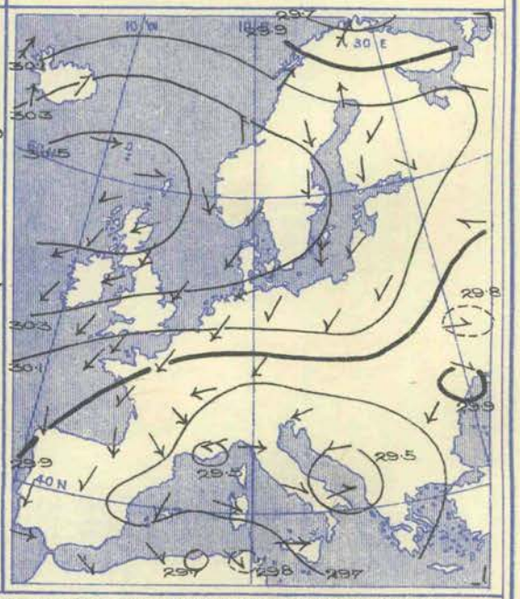


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough and squally in England and the western and north-western countries of the Continent, with occasional snow showers in many places. Snow falling at Buda-Pesth, and rain on some shores of the Mediterranean. Severe snow squalls later in various parts of England and the adjacent part of the Continent, and heavy falls of rain at several stations in southern Europe; about 0·8 in. at Leghorn and Lesina, and 1·2 in. at Lugano.

Temperature fallen in most regions; risen in the far north of Europe. Morning readings ranging from 64° at Sfax, 63° at Palermo, and 56° at Brindisi to 32° or below over the major portion of the Continent, and also at several of our own stations, to 7° at St. Petersburg, and 5° at Archangel. Maxima abnormally low in these Islands; 34° in London, 33° at some other English stations, 32° at Worthing, and 31° at Tunbridge Wells. Thermometer rising very little above 32° in central Europe and northern Italy, remaining below it in the east of France, and only touching 37° at Marseilles and Rochefort. Frost general at night in this country and on the Continent. Thermometer falling to 30° at the Scilly Isles.

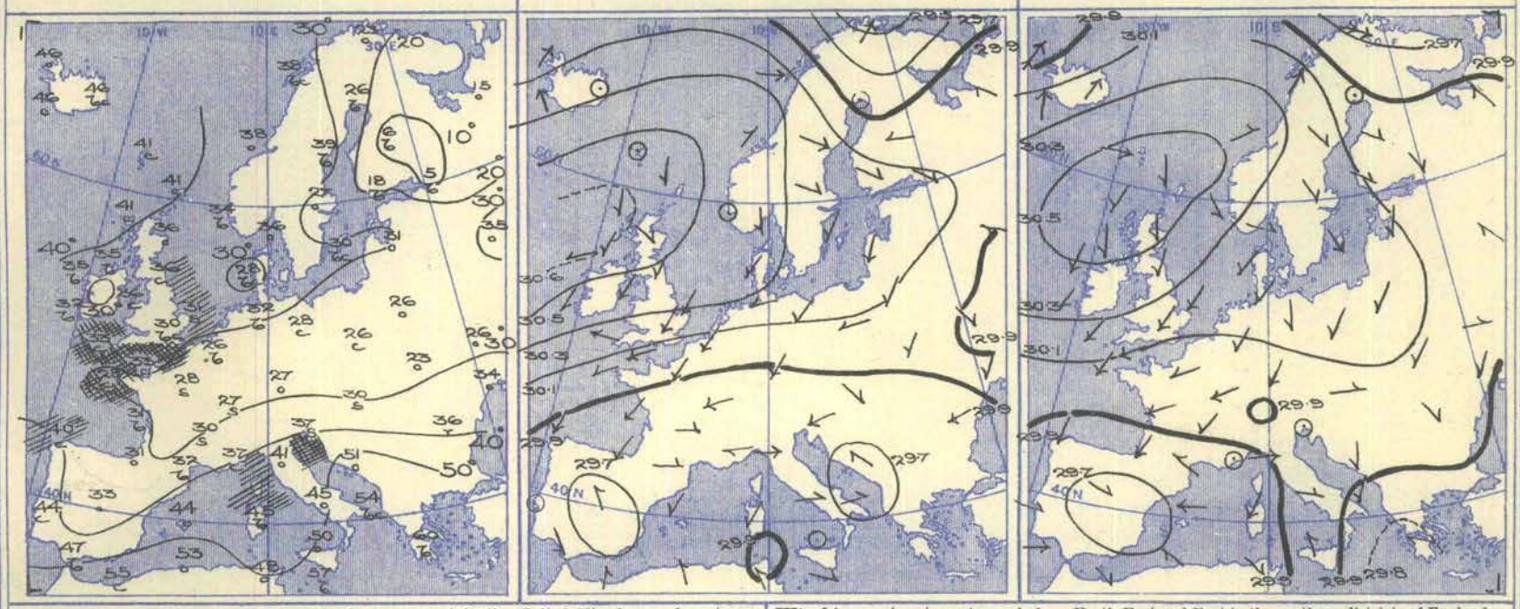
Wind in morning strong to a gale from the Northward over the south of Scandinavia and the Baltic and strong from North-East in the south-east and south of England and in various parts of France. A moderate breeze from North or North-East prevailing over the Peninsula and the adjacent part of the Mediterranean. Increasing to a gale from the North-East on our southern coasts later, and to a high wind on the coast of Holland. A gale from the South-Westward setting in both at Isafjord and Vardö, and a high wind from the North-Eastward in South Germany and at Trieste.

Barometer in morning above 30·5 in. in an anticyclone to the north of these Islands; below 29·5 in. in a depression of irregular form covering Italy and its vicinity, and relatively low in other systems over Russia and Finland. Pressure increasing during day within the anticyclone, and gradient growing steeper over England and the Channel. Southern depression undergoing considerable modification in form, but little in intensity. Barometer rising very briskly over the Gulf of Finland region, but falling in the extreme north of Scandinavia.

Thursday, 6th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning mostly very cloudy or overcast in the United Kingdom and western and central Europe, as well as over a large area in Russia. Snow showers falling at many places in England, France, and Austria, and rain at Hermanstadt. Generally fair to bright in Scandinavia, Denmark, and Finland. Heavy rain or snow later at Lugano, and considerable amounts of rain in the Spanish Peninsula, and the adjacent parts of France and Algeria. Showers of snow occurring at many places further north.

Temperature risen in Scandinavia and Denmark, fallen generally elsewhere. Morning readings ranging from below 10° at St. Petersburg and Kuopio to a little below 30° in many parts of these Islands, France, and the greater portion of central Europe, a little above 50° on the coast of Algeria, and to 60° at Sfax. Maxima during day below 40° very generally in the south and south-east of England, and over a very large area on the Continent, and below 50° at most stations in the south of France. Rising to slightly above 70° at Athens and Tunis, and to 65° at Brindisi. Frost at night in these Islands and in most Continental regions; thermometer falling to 31° at the Scilly Isles.

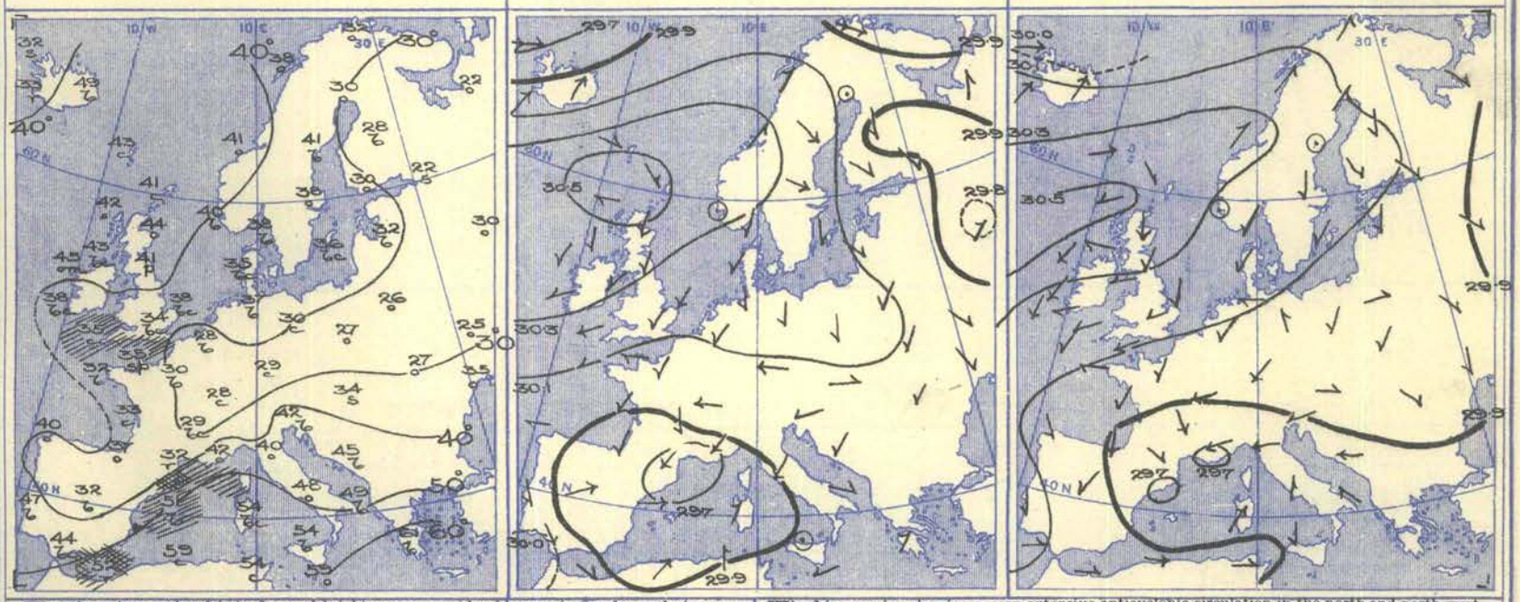
Wind in morning strong to a gale from North-East and East in the southern districts of England and the adjacent part of the Continent, and a high wind from North-East prevailing at Corunna. Mostly moderate elsewhere, from North or North-East over the greater portion of our area, but from various points both in the far north and south. Increasing to a strong gale by evening from the Southward in Iceland. North-Easterly wind decreasing somewhat in force in this country and on the Channel. A gale from North-West setting in at Vardö.

Barometer in morning above 30·6 in. in a large anticyclone having its maximum to the westward of the Hebrides; below 29·7 in. in a depression over Spain and in another over the Adriatic, and below 29·5 in. in another in the extreme north of Scandinavia. Little change occurring later in day in the general distribution of pressure. A fall taking place in Iceland, a slight fall over the United Kingdom, and a slight rise in France. A depression moving South-Eastwards in the neighbourhood of the Azores.

Friday, 7th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine and bright over a considerable area in Sweden and at many stations on the shores of the Mediterranean, but very cloudy or overcast generally, with rain or snow at a few of our own stations, snow at St. Petersburg and in some Polish localities, and rain at Rome, Perpignan, Nemours, and San Fernando. Showers of rain or snow in various parts of these Islands later, heavy rain in Italy and the nearer portion of France; more than an inch of rain and snow, accompanied by thunder and lightning, at Perpignan.

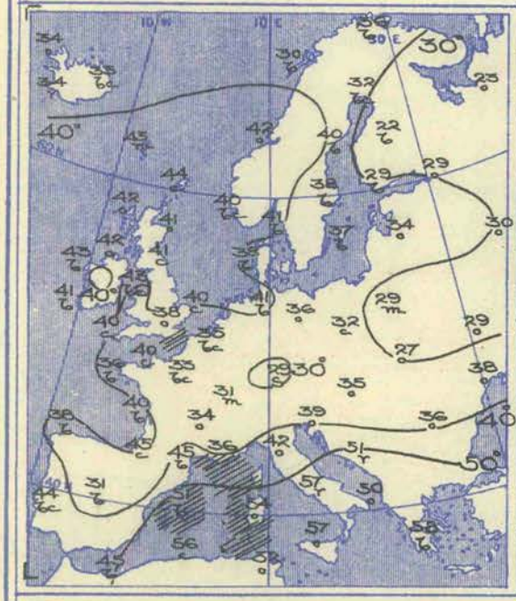
Temperature risen generally. Morning readings ranging from 61° at Athens and 64° at Sfax to about 40° on the south coast of France to about 35° in some parts of England, below 32° over the greater part of the Continent, and to 22° at St. Petersburg and Archangel. Maxima during day very little above 40° in the south and south-east of England and the north and east of France, and below it over a wide area in central Europe; below 50° on the Riviera and in the north of Italy, but as high as 70° at Palermo and 73° at Tunis. Thermometer falling to below 32° at night in several parts of England and Ireland, as well as in many districts on the Continent.

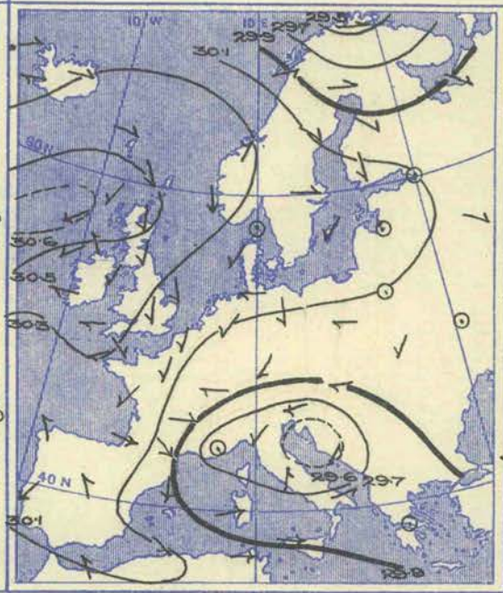
Wind in morning showing a very extensive anticyclonic circulation in the north and north-west of our area, and cyclonic movements in the east and south. A fresh breeze from the Eastward or North-Eastward prevailing in some parts of France and South Germany, and a gale from the Westward in the north-west of Iceland, but little force generally. No change of much importance later in day, but Westerly wind becoming strong or high at Alicante and Palma, and the Easterly current blowing a high wind at Cape Sicié.

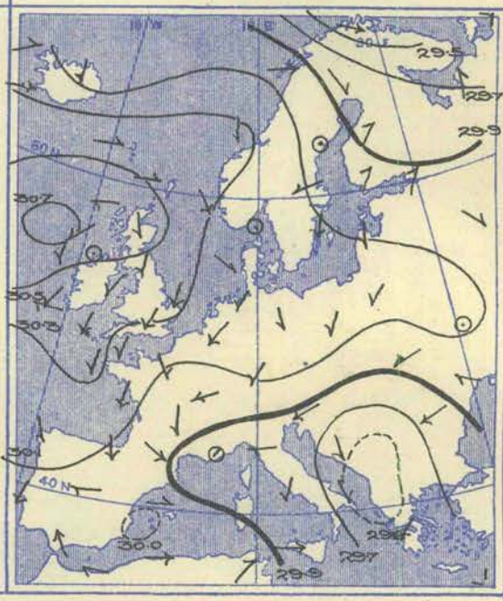
Barometer in morning below 29·7 in. in a depression over the Gulf of Lion, and nearly as low in other systems over Russia and the Balkan Peninsula; above 30·5 in. in a large anticyclone having its maximum to the north-west of Scotland. Another low pressure system moving eastward or north-eastward beyond Iceland. Scarcely any change occurring later in the general distribution; barometer rising decidedly in Iceland, falling somewhat in Scotland and Ireland.

Saturday, 8th April, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning varying greatly, but very cloudy or overcast in the major portion of our area. Rainy over Italy and its vicinity and snow falling at some places in central Europe. Fair to fine in the west and north-west of these Islands, as well as at most stations in the Netherlands, the Baltic region, Sweden, and Finland. A few slight, local showers experienced later in these Islands, and rather large amounts of rain in Italy and at Bucharest.

Temperature risen somewhat in most regions. Morning readings below 40° in central Ireland and many parts of England and the nearer region of the Continent, and below 32° over a considerable area in central and north-eastern Europe, and also at Madrid; above 55° at Naples and at a few places further south. Rising to about 50° during day in some parts of England, and touching 58° at Wick. Maxima below 40° over a large area in central Europe, and no higher than 50° at some stations in the extreme south of France. Maxima between 60° and 70° in Algeria, and 74° at Tunis.

Wind in morning showing a cyclonic movement over Italy and the south of Europe generally, and also in the far north of Scandinavia; anticyclonic elsewhere. Little force as a whole, but Westerly current blowing a high wind at Bodö, North-Easterly wind fresh at Munich, and that from between North and North-West blowing a fresh or strong breeze on several shores of the Mediterranean. No change of importance occurring during day.

Barometer in morning above 30·6 in. to the westward of Scotland and above 30·2 in. over the whole of the United Kingdom, Denmark, and the southern half of Scandinavia; below 29·6 in. in a depression centred over the Adriatic, and a little lower in another in the extreme north of Norway. Distribution not changing much during day. Southern depression moving in a South-Easterly direction. A decided fall of the mercury taking place in the east of Iceland, but the central portion of the anticyclone maintaining its position to the westward of Scotland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
1	1911. April 7th, 2.48 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	65°, 7		65°, 10	75°, 10	85°, 9			Metres. 1,500	Two theodolites. A good deal of cu. Balloon lost in clouds.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites..	—
Area of Surface (sq. metres) ..	—
Capacity of Balloon (cub. metres	·051
Length of Wire (metres)	—

South Kensington, London, S.W. *April 12th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

121

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 15. FIFTEENTH WEEK, SUNDAY, APRIL 9TH, TO SATURDAY, APRIL 15TH, 1911.

[Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was fair to very fine over the Kingdom generally, but a good deal of cloud prevailed in Scotland and the north-east of England. Most places experienced slight rain at the beginning of the week, and in the north and north-east of Scotland showers occurred at various other times.

Temperature was below the average in Ireland and nearly all parts of England, but in Scotland and England N.E. it was above it—as much as 3° in Scotland E. During the earlier days of the week the maxima were very low, but they subsequently became much higher in England, and on the 14th and 15th the thermometer touched 65° in England S.E. and 66° in England E., the Midland Counties and England S.W. In Ireland S. (at Killarney on the 13th) there was a reading of 68°. The minima were mostly low for the time of year, and occurred as a rule about the middle of the week. In the Midland Counties and in England S.W. (at Raunds and Llangammarch Wells) a reading of 23° was recorded, while elsewhere the values ranged from 25° in England S.E. to 30° in England N.E. and to 37° in the English Channel. The lowest readings on the grass were 15° at Llangammarch Wells, 20° at Cambridge, Birmingham, Kew and Wisley, and 21° at several other stations.

Mean Temperature of the Sea. On the coast generally the sea water was colder than during the corresponding week of last year, the largest difference being nearly 4° at Cromarty and Salcombe, and about 5° at Margate and Eastbourne. The means for the week ranged from about 49° at Seafield and 47° on the north-west coast of Ireland and south-west coast of England, to 41° Burnmouth, and 39° at Cromarty.

Rainfall was less than the average in all districts. Except in a few Scottish localities the fall was extremely slight, several stations in Ireland, Wales and England reporting no measureable quantity.

Bright Sunshine exceeded the average except in England N.E. and over Scotland. The percentage of the possible duration ranged from 63 in the English Channel, 61 in Ireland S., 59 in England S.W. and 56 in Ireland N. to 31 in England N.E. and to 22 in Scotland N.

Barometer and Wind. Until late in the week the pressure distribution continued favourable for winds between North and North-East, the central portion of an anticyclone lying at first to the westward of these islands, and afterwards over the northern districts. By Friday, however, it had moved to the south or south-west of the United Kingdom, and on Saturday to the north of France. The wind consequently became Westerly or South-Westerly generally, and increased in force. In the extreme north of Scotland it attained the strength of a gale late on Friday or during the night.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 124.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Light	Light	Very light	Light	Light	Very light	Nought	Light	Very light	Light
	Sunshine ...	Scanty	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Abundant	Abundant	Very abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 6 weeks from Mar. 5th, 1911.	Warmth ...	1 * 1	1 * 2	1 * 1	0 * 1	0 * 1	0 * 1	1 * 2	0 * 2	0 * 2	0 * 1	0 * 3	0 * 2
	Rainfall ...	1 * 4	1 * 3	1 * 4	1 * 1	1 * 2	2 * 1	0 * 5	0 * 4	2 * 4	0 * 5	1 * 3	2 * 1
	Sunshine ...	3 * 2	1 * 3	0 * 3	0 * 2	0 * 4	1 * 3	2 * 1	2 * 0	1 * 1	3 * 1	3 * 0	1 * 2

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

9552 / 450 Wy. & S., Ltd. 4—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed n Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTEENTH WEEK—April 9th to April 15th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	60	28	49·7	37·5	43·3	+ 1·4	28	+ 5	13	− 9	4	− 1	0·68	−0·02	21	− 11	22	−12
Eastern																		
1. SCOTLAND, EAST	63	29	53·1	38·2	45·3	+ 3·0	39	+ 9	11	−12	3	− 1	0·20	−0·23	31	− 2	33	− 2
2. ENGLAND, N.E.	63	30	52·3	37·3	44·4	+ 1·0	37	+ 10	13	− 3	2	− 1	0·04	−0·31	29	− 6	31	− 6
3. ENGLAND, EAST	66	26	53·1	36·5	44·4	− 0·2	40	+ 3	15	0	1	− 3	0·05	−0·30	38	+ 2	40	+ 2
4. MIDLAND COUNTIES	66	23	54·8	35·1	44·4	− 0·2	46	+ 7	19	+ 2	1	− 2	0·01	−0·39	37	+ 4	39	+ 4
5. ENGLAND, S.E.	65	25	52·3	35·9	43·7	− 2·3	38	− 2	17	+ 7	1	− 2	0·05	−0·28	45	+ 9	48	+ 9
Western																		
6. SCOTLAND, WEST	59	27	53·4	37·3	44·9	+ 1·2	40	+ 10	13	− 3	1	− 3	0·18	−0·44	35	− 1	37	− 1
7. ENGLAND, N.W.	61	29	51·7	37·6	44·3	− 0·3	35	+ 3	12	0	1	− 2	0·02	−0·45	41	+ 8	43	+ 9
8 ENGLAND, S.W.	66	23	53·3	36·7	44·6	− 1·4	40	+ 2	15	+ 7	0	− 4	0·00	−0·50	55	+ 17	59	+19
9. IRELAND, NORTH	63	27	53·0	37·0	44·6	− 0·3	39	+ 5	14	+ 3	1	− 3	0·10	−0·43	54	+ 20	56	+21
10. IRELAND, SOUTH	68	27	54·6	36·3	45·0	− 1·3	45	+ 4	16	+ 8	1	− 3	0·01	−0·56	57	+ 20	61	+22
11. ENGLISH CHANNEL	58	37	52·2	40·5	46·1	− 2·1	35	− 9	4	+ 3	1	− 3	0·05	−0·37	58	+ 15	63	+16

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 6 Weeks, March 5th to April 15th, 1911.

0. SCOTLAND, NORTH	60	22	*	*	*	*	71	− 19	168	0	19	−10	2·73	−2·78	159	+ 9	31	+ 2
Eastern																		
1. SCOTLAND, EAST	63	17	*	*	*	*	67	− 56	175	− 6	24	0	1·82	−1·13	145	−22	28	− 4
2. ENGLAND, N.E.	63	26	*	*	*	*	63	− 67	145	+ 4	24	+ 3	1·83	−0·49	139	−46	27	− 9
3. ENGLAND, EAST	66	22	*	*	*	*	83	− 87	152	+ 4	23	+ 3	2·51	+0·42	153	−34	30	− 7
4. MIDLAND COUNTIES.. ..	66	22	*	*	*	*	91	− 86	165	+13	18	− 1	1·67	−0·69	129	−39	25	− 8
5. ENGLAND, S.E.	65	24	*	*	*	*	109	− 71	133	+27	21	+ 3	2·77	+0·51	161	−24	31	− 5
Western																		
6. SCOTLAND, WEST	59	20	*	*	*	*	116	− 9	154	+22	11	−13	0·92	−3·54	179	+ 6	35	+ 1
7. ENGLAND, N.W.	61	26	*	*	*	*	97	− 39	129	+14	15	− 7	1·05	−2·10	180	+18	35	+ 4
8. ENGLAND, S.W.	66	22	*	*	*	*	118	− 58	124	+36	17	− 5	2·71	−0·74	192	+ 4	37	+ 1
9. IRELAND, NORTH	63	22	*	*	*	*	114	− 37	134	+26	13	−13	0·94	−2·61	189	+26	37	+ 5
10. IRELAND, SOUTH	68	23	*	*	*	*	151	− 41	124	+42	20	− 3	2·20	−1·65	208	+23	40	+ 4
11. ENGLISH CHANNEL	62	28	*	*	*	*	160	− 49	54	+25	28	+ 5	3·49	+0·66	202	−22	39	− 4

THE YEAR.—Aggregates, &c., for the Period of 15 Weeks, January 1st to April 15th, 1911.

0. SCOTLAND, NORTH	60	14	*	*	*	*	160	+ 10	387	−111	65	−10	15·14	−1·33	245	+ 6	24	+ 1
Eastern																		
1. SCOTLAND, EAST	63	11	*	*	*	*	152	− 39	459	− 99	58	− 1	6·15	−1·79	288	− 3	28	0
2. ENGLAND, N.E.	63	19	*	*	*	*	187	− 23	366	− 76	52	− 2	4·34	−1·37	273	− 39	26	− 4
3. ENGLAND, EAST	66	16	*	*	*	*	195	− 65	405	− 82	59	+ 5	5·77	+0·31	300	− 27	28	− 2
4. MIDLAND COUNTIES.. ..	66	14	*	*	*	*	213	− 68	409	− 79	45	− 7	4·24	−2·30	258	− 30	24	− 3
5. ENGLAND, S.E.	65	16	*	*	*	*	212	− 86	360	− 5	50	0	5·89	−0·82	313	− 5	29	0
Western																		
6. SCOTLAND, WEST	59	18	*	*	*	*	239	+ 25	336	− 58	51	−13	10·31	−3·00	289	+ 9	27	+ 1
7. ENGLAND, N.W.	61	17	*	*	*	*	208	− 22	313	− 53	47	−11	6·34	−2·48	306	+ 31	29	+ 3
8. ENGLAND, S.W.	66	13	*	*	*	*	231	− 96	297	+ 10	50	− 8	7·68	−2·77	334	+ 10	31	+ 1
9. IRELAND, NORTH	63	18	*	*	*	*	267	− 9	302	− 23	50	−18	6·34	−3·74	321	+ 40	30	+ 4
10. IRELAND, SOUTH	68	18	*	*	*	*	340	− 38	295	+ 48	57	− 4	7·14	−4·26	347	+ 26	32	+ 2
11. ENGLISH CHANNEL	62	28	*	*	*	*	348	− 80	135	+ 27	61	− 3	6·96	−1·78	360	− 32	33	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*52*	*13th*	*33*	*13th*	*47·4*	*36·5*	*41·7*	—	*15*	*21*	7	*1·25*	—	*28·9*	—	*30*	—	*Baltasound.*
	a Sumburgh Head ..	49	10, 13, 15th	34	10th, 13th	48·0	35·9	41·7	+ 0·9	17	24	4	0·61	+ 0·11	17·4	−15·6	18	−16	Deerness.
	a Stornoway	52	12th	34	10th	50·0	38·0	43·7	+ 1·2	29	11	5	0·40	− 0·30	27·7	− 7·3	29	− 8	Stornoway.
	a *Castlebay, Barra Isd.*	*50*	*12th*	*38*	*11th*	*48·6*	*41·0*	*44·6*	*− 0·6*	*22*	*3*	*3*	*0·32*	—	*26·3*	—	*28*	—	*Castlebay.*
	a Wick	53	13th	36	10th	48·9	39·9	44·2	+ 1·9	24	6	6	0·35	− 0·10	*	*	*	*	*
	p Strathpeffer.. ..	56	11th	34	11th	50·8	39·1	44·7	+ 2·1	31	8	5	0·87	+ 0·44	23·5	− 7·7	25	− 8	Strathpeffer.
	p Glencarron .. S	54	11th	28	11th	47·9	35·8	41·6	+ 0·1	17	24	5	1·33	+ 0·03	*	*	*	*	*
	p Fort Augustus S	60	11th	33	9th	51·0	37·4	43·9	+ 1·2	33	13	3	0·59	+ 0·02	14·1	−11·3	15	−12	Fort Augustus.
	p Fort William S	55	11th, 12th	28	9th	51·2	36·7	43·6	− 0·3	33	15	2	0·63	− 0·38	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	p Gordon Castle S	56	13th, 14th	35	11th	51·9	37·8	44·5	+ 1·3	35	12	5	0·27	− 0·13	*27·5*	—	*29*	—	*Gordon Castle.*
	a Nairn	55	11th	36	10th	50·9	39·0	44·7	+ 2·0	32	8	5	0·43	+ 0·11	23·2	—	24	—	Nairn.
	a Aberdeen	59	15th	36	13th	53·1	39·6	46·0	+ 3·0	38	7	4	0·17	− 0·29	31·7	− 2·9	33	− 3	Aberdeen.
	a Balmoral .. S	58	11th, 13th	32	11th	53·7	36·9	44·9	+ 5·5	42	14	3	0·18	− 0·37	32·2	—	34	—	Crathes S.
	p Crieff .. .. S	63	11th, 13th	29	11th	56·5	37·6	46·6	+ 2·8	51	12	1	0·07	− 0·47	43·2	—	46	—	Balruddery.
	a Leith	62	13th	38	11th	54·1	41·0	47·2	+ 2·9	41	3	2	0·08	− 0·21	*	*	*	*	*
	p West Linton.. S	?62	13th	34	10th, 11th	251·2	36·3	43·4	+ 2·6	34	16	3	0·27	—	*25·1*	—	*26*	—	*West Linton.*
	p Marchmont .. S	60	13th	35	10, 11, 12th	53·0	37·6	44·9	+ 2·9	39	12	2	0·14	− 0·35	26·7	− 4·8	28	− 5	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	57	14th	36	10th, 13th	52·1	37·3	44·7	+ 2·0	36	11	2	0·07	− 0·38	20·5	—	22	—	Cockle Park.
	a Shields	57	14th, 15th	35	12th	51·4	37·6	44·2	+ 1·0	34	12	4	0·06	− 0·26	*16·3*	*− 8·1*	*17*	*− 9*	*Newcastle.*
	p Durham	56	14th	31	12th	50·1	36·7	43·1	+ 0·2	30	15	2	0·05	− 0·30	21·8	− 8·2	23	− 9	Durham.
	p Rounton .. M	60	14th	32	12th	51·8	36·2	43·6	+ 0·9	36	16	4	0·07	—	*	*	*	*	*
	p Scarborough.. M	63	14th	35	12th	51·3	38·9	44·8	+ 1·0	33	9	1	0·01	− 0·39	23·4	—	25	—	Scarborough.
	p York	59	12th, 14th	33	12th	53·9	36·6	44·8	+ 0·1	42	15	2	0·03	− 0·36	28·7	− 1·5	31	− 2	York.
— b, South.	a Spurn Head ..	56	14th	37	12th	49·6	39·0	44·1	+ 0·1	27	8	1	0·03	− 0·23	*	*	*	*	*
	a Lincoln	63	15th	30	12th	55·0	37·2	45·7	+ 0·6	46	13	1	0·02	− 0·31	37·3	—	40	—	Skegness.
	a Fulbeck	62	15th	30	12th	55·3	35·3	44·8	0·0	48	19	1	0·01	− 0·35	42·8	—	46	—	Rauceby.
															—	—	—	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	66	15th	34	11th	51·5	36·8	43·8	− 0·1	34	15	1	0·03	—	31·9	—	34	—	Cromer.
	p Hillington .. M	66	15th	33	14th	53·1	36·8	44·6	− 0·1	40	15	1	0·04	− 0·36	33·8	− 0·3	36	0	Hillington.
	a Yarmouth	64	15th	35	14th	51·9	37·3	44·3	+ 0·7	36	13	2	0·03	− 0·31	29·9	—	32	—	Yarmouth.
	a Norwich	65	15th	33	14th	53·0	37·7	45·0	+ 0·7	39	12	1	0·05	—	*	*	*	*	*
	p Geldeston	65	15th	32	14th	53·4	36·0	44·3	− 0·1	41	17	1	0·08	− 0·28	37·2	+ 1·1	40	+ 1	Geldeston.
	p Cambridge	65	15th	26	12th	55·1	35·2	44·7	− 0·8	47	19	1	0·05	− 0·28	41·5	+ 5·8	44	+ 6	Cambridge.
— b, South.	a *Felixstowe*	*63*	*15th*	*30*	*12th*	*51·0*	*35·6*	*42·9*	*− 1·7*	*33*	*18*	*2*	*0·09*	—	*48·8*	—	*52*	—	*Felixstowe.*
	a Clacton-on-Sea ..	60	15th	33	12th	51·3	36·7	43·7	− 0·8	34	15	2	0·07	—	45·6	—	49	—	Clacton.
	a Rothamsted ..	64	15th	26	12th	54·0	33·6	43·3	− 1·1	44	24	2	0·05	− 0·33	?40·9	+ 7·3	?44	+ 8	Rothamsted.
	a *Shoeburyness* ..	*63*	*15th*	*32*	*12th*	*53·3*	*36·6*	*44·6*	*− 1·7*	*41*	*15*	*1*	*0·03*	*− 0·22*	*47·4*	—	*50*	—	*Southend.*
	p Tottenham	66	15th	31	12th	54·8	38·1	46·1	+ 0·4	45	11	1	0·03	—	41·7	—	44	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	58	12th	33	12th	51·7	36·8	43·9	+ 0·7	35	15	2	0·03	− 0·41	30·7	—	33	—	Harrogate.
	a Bawtry	61	15th	29	11th, 12th	55·6	35·6	45·1	+ 0·1	49	18	0	0·00	− 0·33	37·2	+ 7·7	40	+ 8	Worksop.
	p *Buxton* .. M	*57*	*13th, 15th*	*29*	*12th*	*51·0*	*35·3*	*42·8*	*+ 1·2*	*34*	*19*	*2*	*0·02*	*− 0·68*	*45·4*	—	*48*	—	*Buxton.*
	a Nottingham ..	62	15th	29	12th	54·4	35·0	44·2	− 0·5	45	20	0	0·00	− 0·35	42·8	—	46	—	Nottingham.
	p Birmingham, Edgbsn	63	14th, 15th	31	12th	53·8	36·9	44·9	+ 0·2	42	14	0	0·00	− 0·42	26·2	—	28	—	Birmingham.
	a Raunds .. M	66	15th	23	12th	56·3	34·2	44·7	+ 0·1	52	22	0	0·00	—	*	*	*	*	*
	a Oxford	64	14th	29	12th	55·0	35·9	45·0	− 0·7	47	17	2	0·03	− 0·30	39·4	+ 5·7	42	+ 6	Oxford.
— b, West.	a Cheadle .. M	60	15th	31	12th	52·8	35·2	43·6	− 0·1	40	19	0	0·00	− 0·47	37·2	—	40	—	Sheffield.
	p Shrewsbury	65	14th	27	12th	55·7	33·4	44·0	− 1·8	50	24	0	0·00	—	*	*	*	*	*
	a Hereford .. M	66	14th	26	12th	56·1	34·0	44·5	− 1·2	51	22	1	0·01	− 0·38	*	*	*	*	*
	a Cirencester	63	14th, 15th	26	12th	56·2	32·8	43·9	− 0·4	52	26	0	0·00	− 0·40	41·2	+ 6·4	44	+ 7	Cirencester.
	a Bath	64	14th	28	12th	55·4	35·7	45·1	− 0·9	48	18	0	0·00	− 0·46	40·9	—	44	—	Bath.
															42·8	—	*46*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	63	14th, 15th	31	12th	54·1	37·0	45·1	− 1·0	43	14	2	0·04	− 0·30	38·4	+ 0·4	41	+ 1	Kew.
	a Marlborough ..	64	14th	25	12th	54·5	32·6	43·0	− 1·1	46	26	1	0·02	− 0·45	38·0	+ 6·5	40	+ 7	Marlborough.
	a Margate	63	15th	35	14th	50·8	38·3	44·3	− 1·0	32	10	2	0·07	− 0·24	32·6	− 2·2	35	− 2	Margate.
	a Wisley, Surrey ..	65	15th	29	12th	55·0	35·9	45·0	− 1·6	47	17	0	0·00	—	39·6	—	42	—	Wisley.
	a Swarraton .. M	64	15th	26	15th	54·3	32·6	42·9	− 1·9	46	26	1	0·03	− 0·42	52·7	—	57	—	Worthing.
	a Tunbridge Wells M	62	15th	31	12th	52·1	34·4	42·8	− 2·3	38	21	2	0·11	− 0·29	46·6	+10·6	50	+11	Tunbridge Wells.
	a Dungeness	50	15th	31	14th	47·0	35·4	40·9	− 4·3	14	25	2	0·10	− 0·23	43·7	—	47	—	Littlestone.
	p Hastings	55	15th	34	12th	49·3	37·1	42·9	− 3·1	27	14	2	0·06	− 0·33	*51·7*	*+12·7*	*56*	*+14*	*Hastings.*
	p Southampton ..	62	12th, 15th	33	12th, 15th	55·4	37·0	45·8	− 1·9	48	14	1	0·02	− 0·41	52·3	+15·0	56	+16	Southampton.
	a Ventnor	55	15th	37	9th, 14th	50·9	39·0	44·7	− 2·3	32	8	1	0·01	− 0·38	58·8	+18·0	63	+19	Ventnor.
															50·7	+12·0	55	+13	Eastbourne.
LONDON .. —	a *Westminster* ..	*67*	*14th*	*35*	*12th*	*56·1*	*33·6*	*46·9*	*+ 0·7*	*49*	*10*	*1*	*0·03*	*− 0·31*	*34·7*	*+10·0*	*37*	*+11*	*Westminster.*
	a *Greenwich*	*67*	*15th*	*30*	*12th*	*55·3*	*36·3*	*45·3*	*− 1·1*	*47*	*16*	*2*	*0·03*	*− 0·31*	*37·6*	*+ 5·6*	*40*	*+ 6*	*Greenwich.*
6. a, SCOTLAND. W. .. — b, ISLE OF MAN ..	a Poltalloch .. S	54	13th	27	11th	51·7	35·6	43·3	− 0·8	36	18	2	0·15	− 0·48	*	*	*	*	*
	p Glasgow	59	13th	36	10th	53·3	40·6	46·7	+ 3·0	39	4	2	0·31	− 0·16	25·7	− 2·3	27	− 2	Glasgow.
	p Rothesay .. S	59	13th	30	10th	54·6	38·0	45·9	+ 1·5	44	11	2	0·38	− 0·29	*	*	*	*	*
	a Kilmarnock ..	57	13th	30	9th	53·3	36·0	44·2	+ 0·3	41	17	1	0·17	—	*33·0*	—	*35*	—	*Kilmarnock.*
	a Colmonell ..	58	13th	30	10, 11, 12th	53·3	34·7	43·6	− 0·7	42	20	1	0·20	− 0·40	*	*	*	*	*
	p Dumfries ..	59	13th	31	10th	53·6	38·1	45·5	+ 1·1	41	11	1	0·11	− 0·42	*43·3*	—	*46*	—	*Dumfries.*
	p Cally, Gatehouse	59	13th	32	12th	55·7	37·2	46·0	+ 2·2	48	13	1	0·13	− 0·60	*	*	*	*	*
	p Douglas	56	13th	35	11th	51·4	37·8	44·3	− 0·1	34	12	0	0·00	− 0·58	44·5	+ 4·5	47	+ 5	Douglas.
															42·3	—	45	—	Hoylake.
7. a, ENGLAND, N.W... — b, NORTH WALES ..	p Aspatria	58	12th, 13th	32	11th	52·7	38·3	45·2	+ 1·8	38	10	1	0·03	− 0·47	37·5	—	40	—	Aspatria.
	p Newton Rigg ..	59	12th	29	12th	52·1	36·8	44·1	+ 1·4	37	15	1	0·05	− 0·46	31·0	− 2·4	33	− 3	Newton Rigg.
	p Stonyhurst	55	13th	32	12th	50·5	37·5	43·7	0·0	31	13	1	0·03	− 0·61	35·6	+ 2·7	38	+ 3	Stonyhurst.
	p Blackpool .. M	58	13th	30	12th	51·1	36·2	43·3	− 1·2	33	16	1	0·05	− 0·39	46·0	+11·9	49	+13	Blackpool.
	p M'nch'ster, Prestwich	58	13th	30	12th	52·9	36·9	44·5	+ 0·3	39	14	1	0·02	− 0·48	*35·5*	*+ 7·9*	*38*	*+ 8*	*Prestwich.*
	a Liverpool (Bidston)	58	13th	34	11th	51·4	38·0	44·4	− 0·7	34	11	0	0·00	− 0·40	*45·3*	—	*48*	—	*Liverpool.*
	a Hawarden Bridge ..	57	13th, 15th	32	11th, 12th	52·4	37·0	44·3	− 1·9	37	14	0	0·00	− 0·30	*47·3*	*+11·6*	*50*	*+12*	*Southport.*
															51·5	—	—	*55*	*Rhyl.*
	p Llandudno .. M	58	13th	35	12th	51·3	40·2	45·5	− 0·3	32	5	0	0·00	− 0·43	47·7	+13·2	51	+14	Llandudno.
	a Holyhead	55	14th	37	12th, 13th	49·4	38·7	43·8	− 1·6	26	?9	0	0·00	− 0·49	47·2	—	50	—	Aberdovey.
	p Bettws-y-Coed ..	61	13th, 14th	30	12th	53·1	36·0	44·1	− 1·4	40	17	0	0·00	—	40·3	—	43	—	Bettws-y-Coed.
															44·6	—	47	—	Aberystwyth.
8. a, SOUTH WALES .. — b, ENGLAND, S.W. ..	a Llangammarch Wells	61	14th	23	12th	54·0	30·4	41·6	− 2·1	34	45	0	0·00	—	38·8	—	41	—	Llangammarch Wells.
	a Pembroke	56	14th	35	11th	51·9	37·6	44·4	− 1·1	35	12	0	0·00	− 0·47	68·1	+28·7	72	+31	Pembroke.
	p Cardiff	61	14th	30	12th	53·3	36·9	44·7	− 2·3	40	14	0	0·00	− 0·60	*36·3*	—	*39*	—	*Cardiff.*
															63·2	*+22·4*	*67*	*+24*	*Tenby.*
	a Clifton	62	14th	32	12th	54·7	37·9	45·9	− 0·8	45	11	0	0·00	− 0·52	*40·6*	—	*43*	—	*Clifton.*
	a Shaftesbury .. M	63	14th	32	12th	53·9	35·8	44·4	− 0·1	43	17	0	0·00	− 0·52	*	*	*	*	*
	a Arlington	60	13th	31	12th	52·7	35·0	43·4	− 1·2	39	20	0	0·00	− 0·70	60·1	+21·9	65	+24	Newquay.
	a Cullompton .. M	66	14th	30	12th	56·6	35·2	45·4	− 0·6	52	19	0	0·00	− 0·52	43·8	+ 9·2	47	+10	Cullompton.
	a Portland Bill ..	54	14th	37	9th, 12th	49·6	39·6	44·4	− 2·1	27	7	0	0·00	—	*54·6*	—	*59*	—	*Weymouth.*
	p Plymouth	58	12th, 13th	37	14th, 15th	54·1	39·0	46·2	− 0·9	42	8	0	0·00	− 0·53	59·9	+22·2	64	+24	Plymouth.
	p Falmouth	57	14th	37	9th	51·7	39·9	45·5	− 1·3	33	6	0	0·00	− 0·63	68·2	+28·4	73	+31	Falmouth.
															60·2	—	*65*	—	*Salcombe.*
															59·7	—	*64*	—	*Torquay.*
9. IRELAND, N. — a, West. — b, East.	a Malin Head	52	11th	35	11th	49·9	40·4	44·9	+ 0·5	27	4	1	0·06	− 0·37	*	*	*	*	*
	a Blacksod Point ..	53	14th	35	13th	50·6	39·9	45·0	− 1·0	30	6	1	0·20	− 0·48	*	*	*	*	*
	p Markree Castle ..	58	14th	27	11th	55·3	33·0	43·6	− 1·0	49	25	1	0·14	− 0·48	59·3	+27·2	62	+29	Markree Castle.
	a Birr Castle	62	13th	27	12th, 13th	55·1	32·9	43·5	− 1·5	49	25	1	0·03	− 0·46	*52·9*	*+19·1*	*56*	*+20*	*Birr Castle.*
	p Armagh	63	13th	33	11th, 12th	55·5	36·1	45·3	+ 0·6	48	17	1	0·15	− 0·33	47·8	+16·0	50	+17	Armagh.
	a Donaghadee	58	14th	37	12th	51·7	39·6	45·4	+ 0·6	34	7	1	0·04	− 0·42	*	*	*	*	*
10. IRELAND, S. — a, East. — b, West.	p Dublin, City.. ..	60	14th	34	12th	53·2	39·9	46·2	− 0·5	38	6	1	0·01	− 0·41	46·7	+10·5	50	+11	Phœnix Park.
	a Kilkenny	63	13th	30	12th	55·0	36·0	45·0	− 0·6	46	17	0	0·00	− 0·50	*	*	*	*	*
	a Waterford	59	12th	33	12th	53·7	36·4	44·6	− 1·2	42	16	0	0·00	− 0·61	*	*	*	*	*
	a Birr Castle	62	13th	27	12th, 13th	55·1	32·9	43·5	− 1·5	49	25	1	0·03	− 0·46	52·9	+19·1	56	+20	Birr Castle.
	a Foynes	60	13th	31	12th	54·2	37·9	45·7	− 0·8	43	11	1	0·03	− 0·54	*	*	*	*	*
	a Cahir .. .. M	63	13th	28	12th	55·8	35·5	45·2	+ 0·1	50	18	0	0·00	—	*	*	*	*	*
	a Killarney	68	13th	29	12th	58·6	35·0	46·2	− 0·3	59	20	1	0·02	− 0·82	*	*	*	*	*
	a Valencia	55	11th, 12th	31	12th	53·6	35·4	44·1	− 3·2	42	18	0	0·00	− 0·93	66·3	+30·9	71	+33	Valencia.
	a Roche's Point ..	56	15th	34	12th	52·0	37·7	44·5	− 2·3	36	12	0	0·00	− 0·64	62·4	—	66	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	55	13th, 14th	38	9th	51·9	39·6	45·5	− 2·5	35	7	0	0·00	− 0·46	56·3	+16·5	61	+18	Scilly.
	a Jersey, St. Aubins ..	58	12th	40	9, 11, 14th	52·9	41·1	46·7	− 1·3	37	3	1	0·10	− 0·38	59·5	+17·1	64	+18	St. Heliers.
	a Guernsey	58	15th	37	14th	51·9	40·9	46·1	− 1·8	33	3	1	0·04	− 0·52	59·3	+16·5	64	+18	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 57·3 hrs.* (*+18·9 hrs.*), *62* % (*+20* %); *Bournemouth, 57·4 hrs., 62* %; *Bognor,* *hrs.*, %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	42·4	—
0. — —				
0. — —				
1. Aberdeen	—	—	—	41·7
1. Crathes	4	29	42·9	41·2
1. Balmoral	2	29	—	—
1. West Linton	—	—	—	—
1. Marchmont	—	—	41·6	—
2. Cockle Park	4	21	41·8	41·4
2. Durham	2	26	—	—
2. York	—	—	42·8	42·9
2. Hull	3	29	43·1	42·4
2. Lincoln	—	—	41·7	42·0
2. Rauceby	6	21	43·7	43·2
3. Norwich	1	27	—	—
3. Yarmouth	—	—	43·7	44·3
3. Lowestoft	—	—	—	—
3. Cambridge	3	20	44·1	44·1
3. Clacton-on-Sea	4	23	42·8	44·6
3. Southend	3	26	43·3	—
3. Tottenham	2	25	—	44·4
4. Harrogate	2	25	41·4	41·4
4. Huddersfield	2	26	41·3	41·0
4. Buxton	5	22	40·3	41·1
4. Sheffield	2	26	40·7	41·1
4. Nottingham	3	26	42·6	40·6
4. Birmingham	4	20	40·9	42·9
4. Oxford	1	23	—	—
4. Hereford	3	21	—	—
4. Cirencester	1	27	41·8	42·7
4. Bath	—	—	—	—
5. Margate	1	30	42·4	42·9
5. Greenwich	5	22	—	—
5. Westminster	3	27	—	—
5. Kew	4	20	42·3	43·7
5. Canterbury	2	28	42·3	44·5
5. Tunbridge Wells	5	23	41·8	—
5. Wisley	5	20	42·2	42·9
5. Worthing	3	28	43·4	44·7
5. Portsmouth	3	27	44·5	45·4
6. Glasgow	2	27	—	—
6. Rothesay	—	—	—	43·4
6. Colmonell	3	25	—	—
6. Dumfries	4	27	43·1	42·7
6. Douglas	0	32	—	—
7. Aspatria	1	27	43·7	43·1
7. Newton Rigg	2	26	42·7	41·7
7. Burnley	4	21	41·3	41·3
7. Southport	5	22	43·2	43·1
7. Manchester City	0	33	41·8	43·3
7. Bettws-y-Coed	2	29	42·0	43·7
8. Llangammarch Wells	6	15	41·5	43·6
8. Cardiff	1	21	42·2	43·1
8. Clifton	1	26	—	—
8. Plymouth	1	29	45·8	—
9. Armagh	3	25	44·5	44·0
9. Markree	4	26	46·0	44·7
10. Dublin, Trin. Coll.	2	26	45·0	44·9
11. Guernsey, Brooklyn	1	25	44·5	45·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	—	—	—
	Kirkwall	45	44	44·2
	Wick	44	43	43·4
SCOTLAND, E.	Cromarty	40	39	39·4
	Pennan Bay	43	41	42·0
	Aberdeen, Cove Bay	44	42	42·4
ENGLAND, N.E.	Burnmouth, Berwick	42	39	40·7
	Scarborough	46	41	43·1
ENGLAND, E.	Shipwash Lightship	43	41	41·7
	Margate‡	45	40	41·6
ENGLAND, S.E.	Eastbourne‡	44	40	42·1
SCOTLAND, W.	Lamlash	47	44	45·1
	Ballantrae	44	42	43·3
ENGLAND, N.W.	Port Erin	47	43	44·8
ENGLAND, S.W.	Newquay	47	47	47·0
	Scilly	50	46	47·5
	Plymouth‡	47	46	46·6
	Salcombe	46	40	43·6
IRELAND, N.W.	Sheephaven	49	46	47·1
	Teelin	53	45	47·5
IRELAND, S.W.	Cleggan	49	44	46·6
	Seafield	51	47	48·6
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

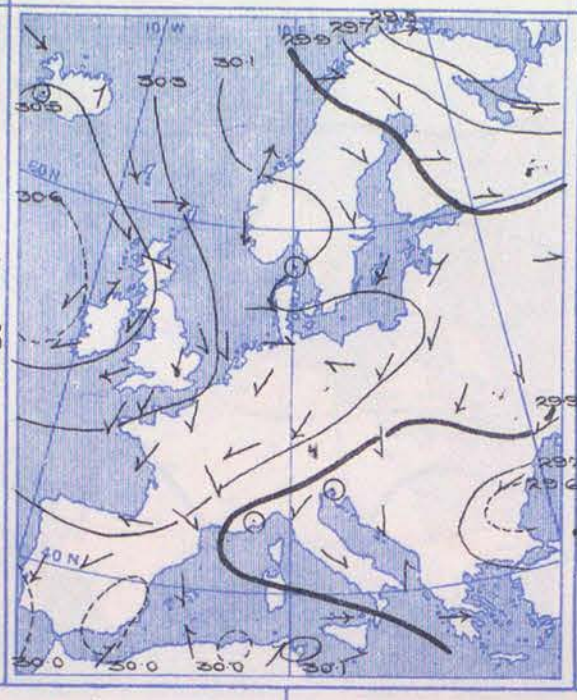
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

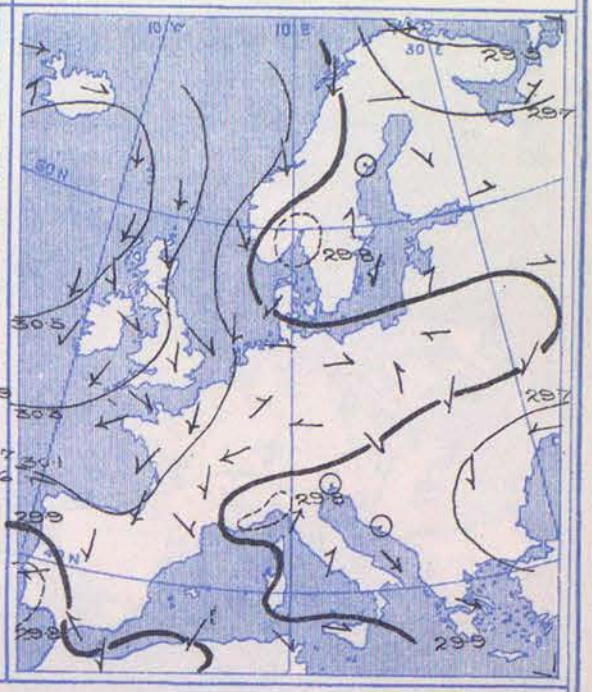
Sunday, 9th April, 1911.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright in several southern localities, and in places elsewhere, but mostly very cloudy or overcast. Rain falling at Bucharest and snow at Hermanstadt. Slight rain experienced later in the east of Britain, and heavy amounts in Greece and the south of the Spanish Peninsula; as much as 3 in. at Gibraltar.

Temperature showing no decided or general change. Morning readings ranging from 58° at Algiers, and a little above 50° at some other southern stations, to 40° in the south-east of England, below 32° at various stations in central Europe, and also in the north-east of our area. Maxima during day below 50° in many parts of England, France, and central Europe, and no higher than 50° at Naples. Thermometer rising to 60° or higher at several stations in the extreme south, and touching 73° at Tunis.

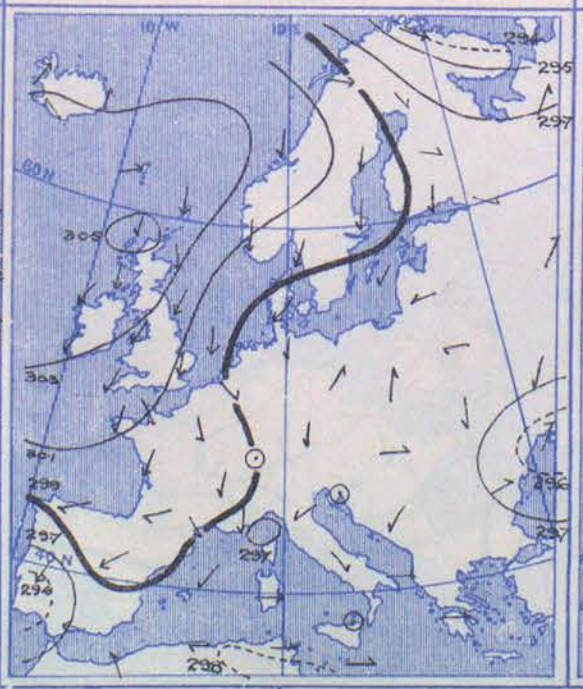
Wind in morning mainly between North and North-East over the United Kingdom and the western countries of the Continent; fresh in places, but light or moderate generally. Light or moderate breezes from West or North-West prevailing over the north-east of our area, and a cyclonic circulation of little strength in the south-east. Increasing somewhat in force over the North Sea region during day, but little change occurring elsewhere.

Barometer in morning above 30·6 in. to the north-westward of Ireland; below 29·6 in. both in the south-east and far north-east of Europe, and below 29·8 in. in a large depression some distance to the west of the Spanish Peninsula. No change of importance later in day in the general pressure distribution, but barometer falling decidedly in the region of the Skager Rack, and a well-formed depression developing by the evening. An increase of pressure taking place in Iceland.

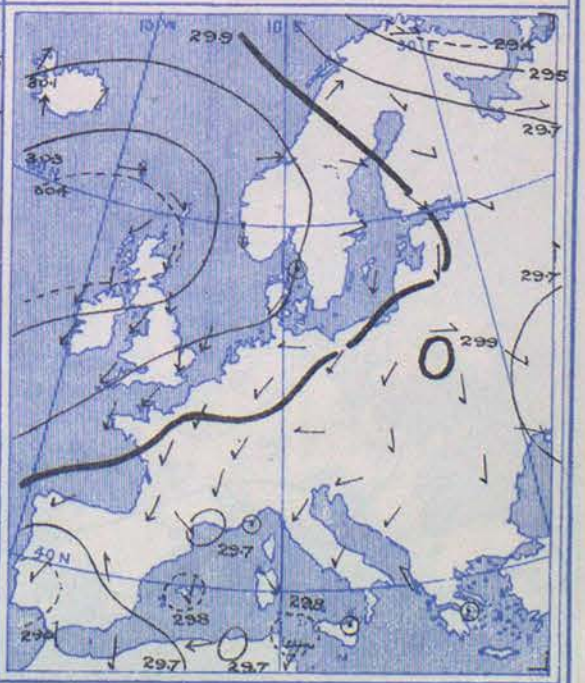
Monday, 10th April, 1911.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to bright in the west and north of the United Kingdom, and also over a wide area in northern Europe, but rain falling on the north coast of Holland. Very cloudy or quite overcast in most parts of our area, with rain in western Germany and at Havre, as well as at several stations over the southern regions of the Continent, and at Oran. Heavy rain later over the Spanish Peninsula, and smaller quantities in places scattered over a large district over the southern half of the Continent. Heavy rain or snow at Kharkoff.

Temperature fallen in most regions. Morning readings ranging from 60° at Sfax and above 50° at a few other southern stations to below 40° generally, and to below 32° at most places in the north and north-east of our area. Maxima during day below 50° in almost all parts of Great Britain, and below 45° in the east of England. Thermometer remaining below 50° over nearly the whole of central Europe and France, but touching or rising above 60° at a few stations in the far south of our area.

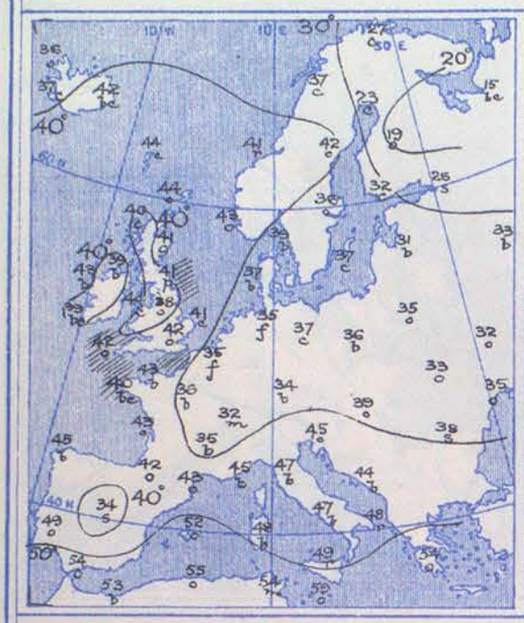
Wind in morning mainly Northerly over the western and northern countries; light or moderate generally, but fresh or strong over the North Sea, the east of England, Holland, and the north-east of France. Light or moderate breezes from various quarters in most other districts, but a cyclonic circulation of considerable force prevailing over the Spanish Peninsula Increasing in force during day over England and the Channel and blowing a gale in squalls at Dover. No great change elsewhere; force decreasing in Spain and Portugal.

Barometer in morning above 30·5 in. in an anticyclone centred near the Hebrides; below 29·4 in. in a depression in the extreme north, and nearly as low in other systems situated in the far south-east and south-west of our area; below 29·8 in. in a depression over Germany. No change of importance later in the position of the high pressure system, but the barometer falling on its northern borders over Iceland. Pressure decreasing somewhat over France, and rising a little over Scotland and Ireland.

Tuesday, 11th April, 1911.

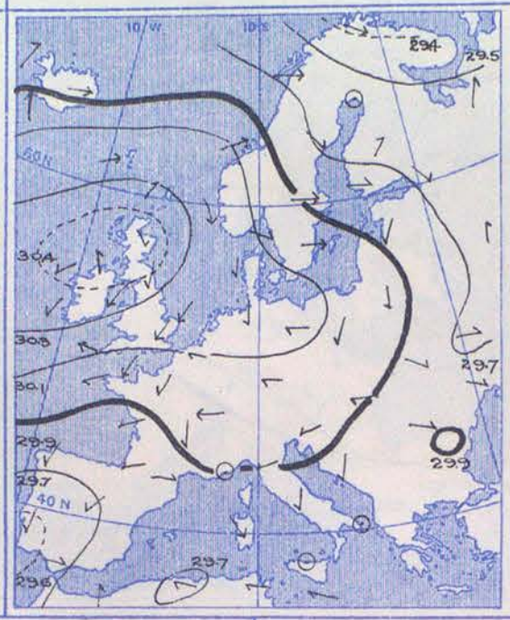
Temperature and Weather.

7 a.m.

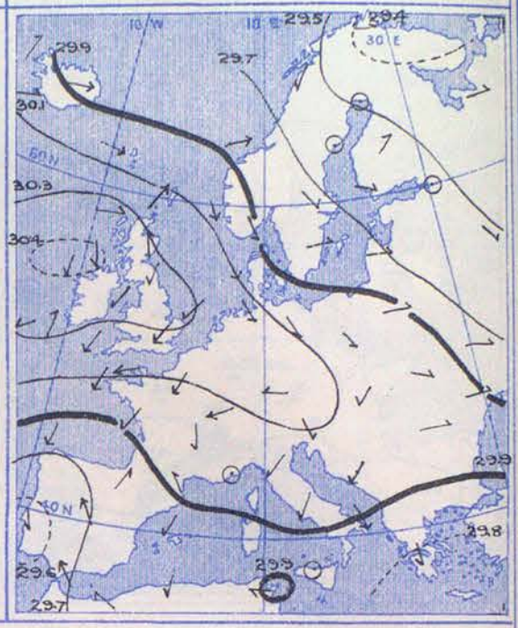


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or overcast over the major portion of our area, with rain at Christiansund, and at a few stations in the south, and snow at Madrid. Fair to fine on the Riviera, in the west and north-west of these Islands, and in a few localities elsewhere. Heavy rain subsequently in the south of Spain and at Christiansund, and slighter amounts in Algiers and at Athens.

Temperature changed little and rather irregularly, but risen in most regions. Readings in morning below 20° in Finland and the north of Russia, and below 40° over the greater part of the Continent and at many of our own stations; 50° or higher on some shores of the Mediterranean, 59° at Malta. Maxima during day above 60° at many places in the far south, but only 46° at Madrid. About 40° at several stations in these Islands, the Netherlands, and central Europe. Frost at night in central Ireland and over a large area in Britain.

Wind in morning anticyclonic and of little force over the United Kingdom and the greater portion of the Continent, but North-Easterly current fresh to strong on the English Channel. Westerly current increasing somewhat in strength later in Iceland, a high wind from the Westward springing up at Christiansund, and a strong breeze from the North-Westward on the eastern shores of the North Sea. Little change either in direction or force elsewhere, but a high wind from the Eastward setting in at Toulouse.

Barometer in morning, 30·1 in. to above 30·4 in., in a very large anticyclone extending from the Atlantic over these Islands, the North Sea, and central Europe; below 29·6 in. in a depression between Spain and Madeira, and below 29·4 in. in another in the extreme north of the Continent. Pressure giving way during day in the north of these Islands and in Norway and Denmark, increasing in the south of this country and over France. Anticyclone extending further in a South-Easterly direction. Barometer rising again in Iceland.

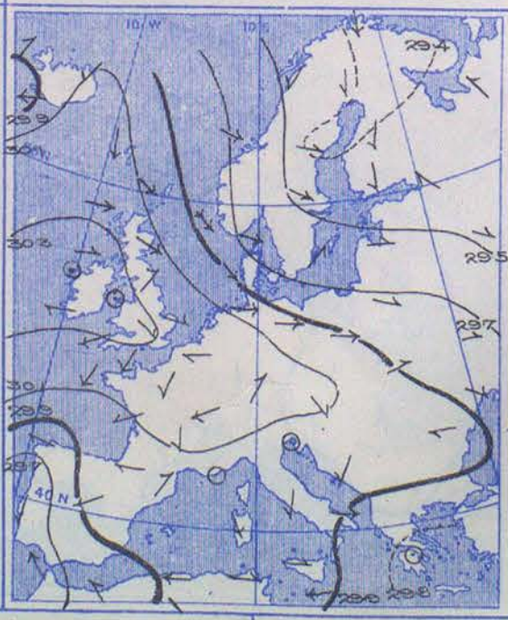
Wednesday, 12th April, 1911.

Temperature and Weather.

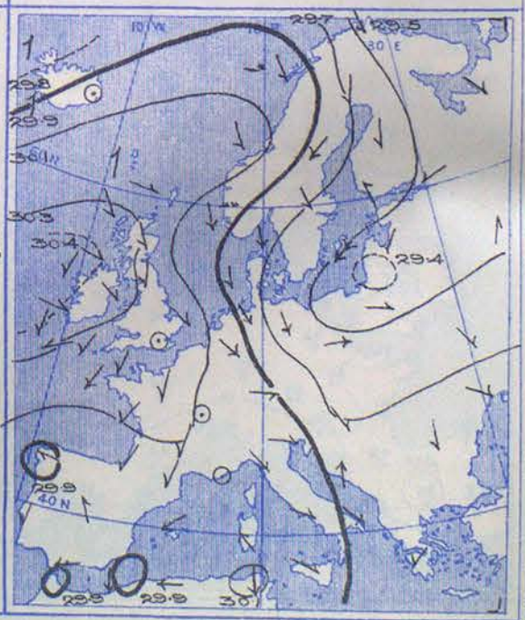
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in the extreme north of Scotland, and also at Skudesnaes, Hernösand, Palermo, and at some stations in the Spanish Peninsula, and snow falling at Bucharest, Lemberg, and Vardö. Fair to fine and bright over a considerable portion of Ireland, England, France, Italy and Russia. Slight rain later in some Scottish districts, and more decided falls in various parts of northern and central Europe, as well as in Algeria and the south of Spain.

Temperature fallen in Norway, risen in nearly all other parts of our area. Morning readings ranging from 59° at Algiers and about 55° at a few other stations in the extreme south to 40° or slightly below over a large area in the central countries and at many places in England and Ireland, to below 32° over the greater portion of Russia, and to 18° at Archangel. Rising later to about 60° in several parts of England, France, and Italy, and to about 70° at some of the most southern stations, as well as at Rochefort. Remaining below 50° over a large area in central Europe. Frost at night in central Ireland.

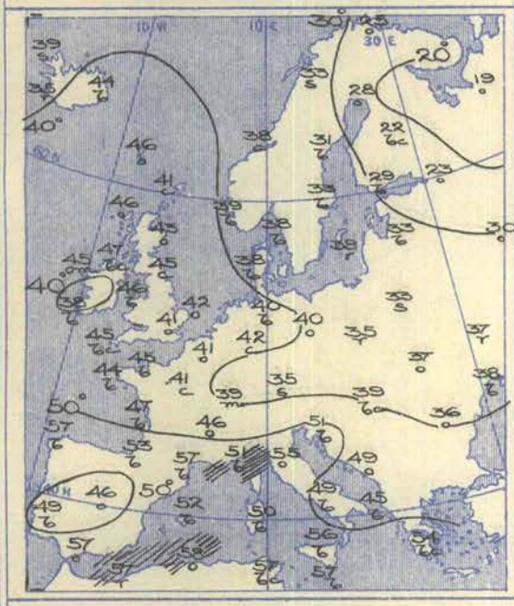
Wind in morning anticyclonic except in Scandinavia and the south-west of Europe. North-Westerly current strong to a gale along the west coast of Norway. Little force generally elsewhere, but Easterly wind strong in the south of Spain. Strong winds from the Northward becoming general later in day in Scandinavia and over the Baltic. Easterly current becoming high at Algiers, and continuing very strong or high in the south-east of Spain.

Barometer in morning above 30·3 in. in the central portion of an anticyclonic system extending from the Atlantic across Ireland to the south-east of England; below 29·4 in. in a depression in the far north of the Continent, and below 29·7 in. in another disturbance in the extreme south-west. Anticyclone affecting nearly the whole of the mainland of Europe. Pressure giving way quickly during day over the Baltic region, and a well-defined depression shown over East Prussia by evening. Barometer rising in Scotland and Ireland, falling decidedly in Iceland.

Thursday, 13th April, 1911.

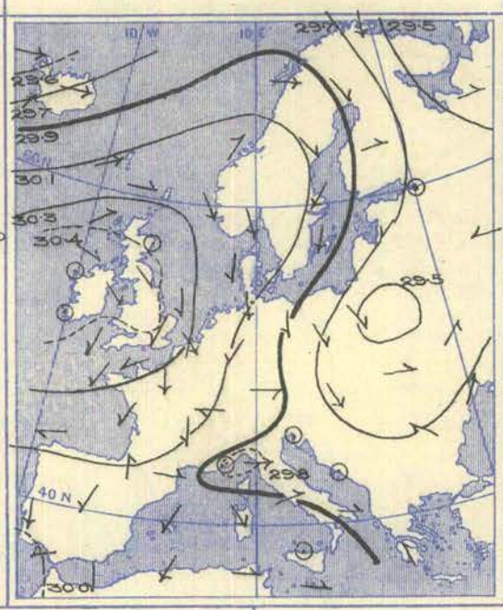
Temperature and Weather.

7 a.m.

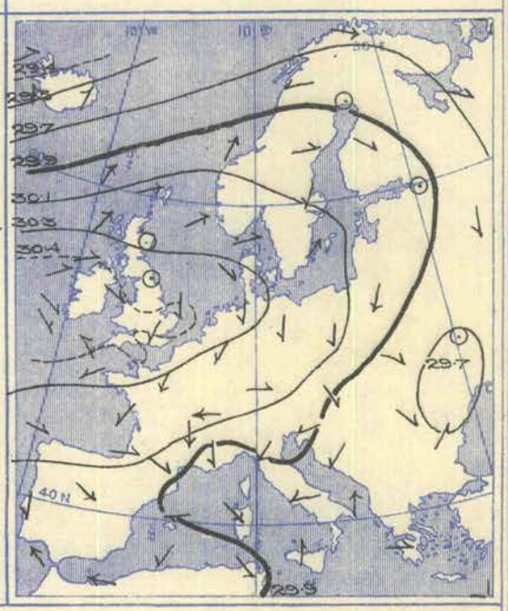


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally fair to fine over the United Kingdom and its neighbourhood, and also over nearly the whole of southern Europe. Mainly overcast in the central countries, with rain or snow in several places. Some rain later in Portugal and Italy, and snow or rain in various parts of central Europe and Scandinavia, but remaining dry elsewhere.

Temperature risen in England and the nearer regions of the Continent, fallen in many other districts. Morning readings ranging from about 55° at a few stations in the extreme south to below 40° over most of the mainland of the Continent, to 22° in central Finland, and to 19° at Archangel. Rising later to 70° or slightly higher here and there over the Mediterranean, and to above 60° over a considerable area. Touching 62° at Leith and 60° at Bath, but remaining below 55° in many parts of these Islands, and below 50° on the south coast of Kent. Maxima low over the central parts of Europe.

Wind in morning showing an extensive anticyclonic movement over the western and northern countries. Northerly current moderate to fresh over the North Sea and strong on the Baltic and in southern Scandinavia. Cyclonic over Russia, and also n the south of our area, but few places having a force greater than a light or moderate breeze. Westerly wind increasing to a strong breeze by evening between Scotland and Iceland, but force decreasing over the North Sea and the Baltic.

Barometer in morning above 30·4 in. in an anticyclone having its maximum over this country and the adjacent portion of the Atlantic, and high over the whole of western and north-western Europe. Below 29·8 in. in a depression over the Gulf of Genoa, and below 29·6 in. in a very large and complex system extending from the White Sea to Poland. No change later in day in the general distribution, but barometer falling somewhat briskly in Iceland and the north of Scandinavia, and slowly over the northern districts of these Islands.

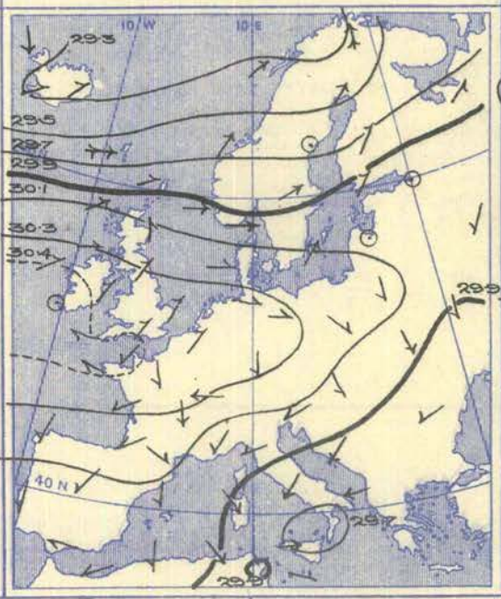
Friday, 14th April, 1911.

Temperature and Weather.

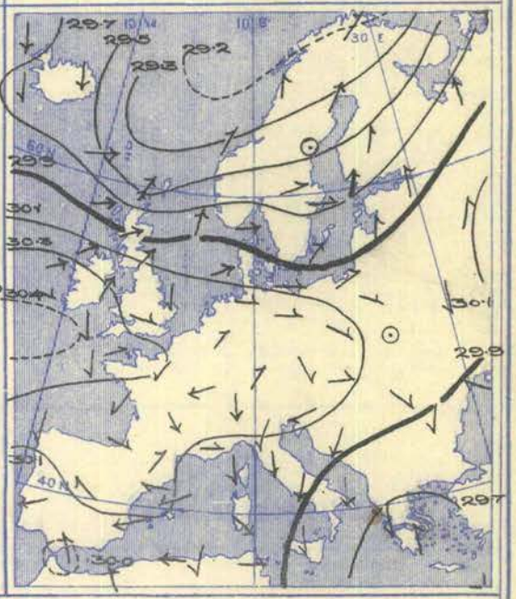
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine and bright over nearly the whole of the United Kingdom and a very large area on the Continent. Snow falling in Iceland and at Haparanda and rain at Thorshavn. Some rain later over the north and north-west of Scotland and considerable or large amounts in Greece, at Palermo, Gibraltar, and Nemours, and various quantities of rain or snow in southern Russia and Norway.

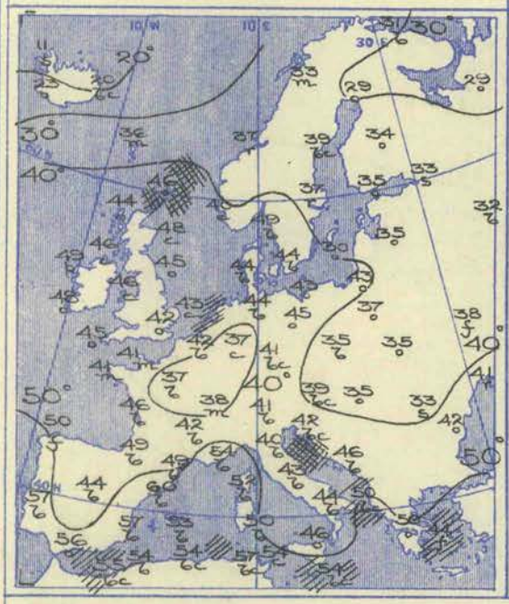
Temperature risen in Scandinavia, fallen or changed irregularly in most parts of these Islands. Morning readings ranging from about 40° at many of our own stations and in France to below 30° in the north-east of our area, and to above 50° in the far south; highest readings 58° at Palermo and 60° at Sfax. Rising to between 60° and 64° in many places over southern half of England during day, but only touching 48° at Dover and Brighton, and 47° at Folkestone. Maxima below 50° over a large area in central Europe, but above 60° over the Mediterranean region, and as high as 70° at Madrid and Barcelona.

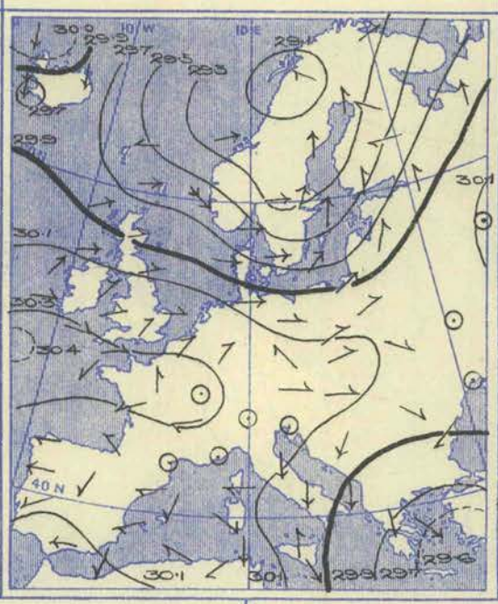
Wind in morning cyclonic both in the north and south of our area, anticyclonic es. Westerly current strong over a large area, and blowing a gale at Thorshavn. Easterly a. North-Easterly winds moderate to light in most southern regions, but strong or fresh locally. Increasing to a gale from South-West or West later in the extreme north of Scotland and on the west coast of Norway, and freshening in the north of these Islands generally.

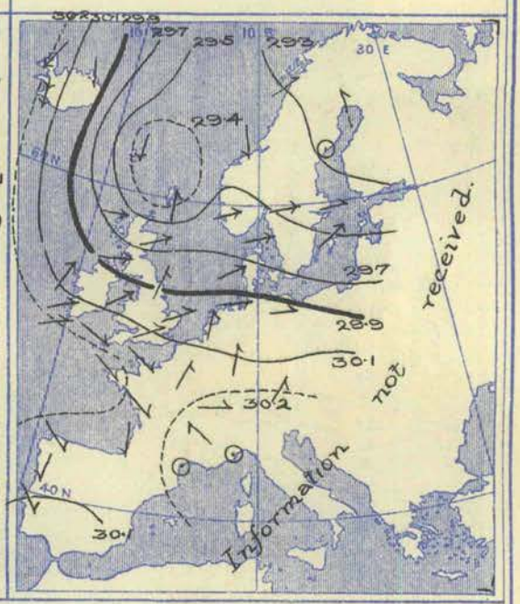
Barometer in morning above 30·4 in. over the southern half of Ireland, the English Channel, Brittany, and the adjacent portion of the Atlantic; relatively high thence across Germany and Poland to central Russia. Below 29·5 in. in a depression over the south of Italy and Sicily, and below 29·3 in. in a very large depression in the extreme north of our area. Pressure giving way very decidedly over the north-west of our area generally during day, and very briskly in the north of Scotland. Anticyclone moving slowly southward. A brisk rise of the barometer setting in in Iceland.

Saturday, 15th April, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to very fine over the major portion of our area, but showery at Blacksod Point and Castlebay, much cloud over Finland and the Baltic region, with rain or snow at a few stations. Rain also falling at Christiansund, Athens, and Odessa and snow at Hermanstadt. Some sleet and snow later in the north and east of Scotland and rain or snow in Norway, Sweden, and the north of Denmark, but remaining fine over England and nearly the whole of Ireland. Rain experienced in some parts of the Spanish Peninsula.

Temperature risen somewhat in most places. Morning readings ranging from 60° at Barcelona and about 55° at several stations in the south to 40° or below in several parts of France and central and northern Europe, and to below 32° in some localities in the extreme north-east. Rising to 60° or above during day over a considerable area in the south and east of England, and to between 60° and 70° at many French stations. Maxima below 50° in some parts of Scotland and Wales.

Wind in morning Westerly to Southerly over the north and north-west of our area generally, but Northerly in Iceland. Strong to a gale in the latter region and also over southern Norway and Denmark. A moderate to strong breeze from the Northward prevailing over Italy and the adjacent regions. Gale subsiding during day in Norway, but wind increasing in force from the Westward in the west and north-west of these Islands.

Barometer in morning above 30·3 in. in an elongated anticyclone extending from the east of France to the Azores, and above 30·1 in. in central Russia. Below 29·1 in. in a large depression having its minimum in the north of Norway; below 29·6 in. in Greece. A depression moving from Iceland to the northward of Scotland during day and pressure decreasing decidedly over these Islands generally; increasing briskly in Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
1	1911. April 3rd, 10.0 a.m. to 10.55 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	274·5° 70% 10°, 7	273·5° 70% 10°, 12	271° 95% 10°, 15	268° 100% 10°, 14				266·5° 100% 10°, 12	1,200	Clouds at 900 m. Wind very irregular in direction and strength. Snowing.
2	April 4th, 10.10 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	277° 70% 10°, 8	276° 70% 10°, 12	273° 85% 10°, 14	269° 100% 10°, 16				266·5° 100% 10°, 18	1,300	Clouds at 1,100 m. Irregular wind.
3	April 6th, 10.40 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	273° 80% 55°, 10	272·5° 80% 60°, 14	270° 90% 65°, 19					268·5° 90% 65°, 21	650	Very gusty wind.
4	April 13th, 12.34 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	34°, 5		19°, 6	38°, 4					1,000	One theodolite. Assumed rate of ascent 1·7 m.p.s. No clouds.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites..	1	1	1	—
Area of Surf ce (sq. metres) ..	6	6	4	—
Capacity of Balloon (cub. metres)	—	—	—	·015
Length of Wire (metres)	1,500	1,700	650	—

South Kensington, London, S.W. *April 19th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 16. SIXTEENTH WEEK, SUNDAY, APRIL 16TH, TO SATURDAY, APRIL 22ND, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather continued fair or fine in the east and south of England, and over a considerable portion of the Midlands, but in Ireland, Scotland and the western districts of England rain fell very frequently, some stations in the extreme north-west experiencing a measurable quantity every day.

Temperature was above the average, the excess being as much as 4°·9 in England E. and N.E. The highest of the maxima were recorded generally on the 22nd, and ranged from 69° in England E., and 68° in the Midland Counties, to 59° in Scotland N. The lowest of the minima occurred early in the week—mainly on the 17th—and varied from 27° in Scotland E., 28° in Scotland N., and 30° in England S.E. to 37° in England N.W. and Ireland, and to 40° in the English Channel. The lowest grass minima were 20° at Crathes, 23° at Balmoral, 26° at Glasgow, and 27° at Plymouth.

Mean Temperature of the Sea was lower than during the corresponding week of last year at most stations, but the difference was not large. The means for the week ranged from 50° at Seafield, and 49° at Scilly to 42° at Burnmouth, and to 40° at Cromarty.

Rainfall exceeded the average in Ireland, Scotland and the N.W. and S.W. of England, but was less elsewhere. The excess was large in Scotland, and rather large in Ireland; on the 21st as much as 1·31 in. was recorded at Fort William, and 1·04 in. at Glencarron. At some stations in the E. and S.E. of England the weather continued rainless.

Bright Sunshine was deficient generally, but in excess of the normal in England E. and S.E., and the English Channel. The percentage of the possible duration ranged from 48 in the English Channel, and 44 in England S.E. and E. to 21 in England S.W., and to 17 in Ireland S.

Barometer and Wind. The pressure distribution was favourable for winds from between South and South-West or West, but the influence of some of the cyclonic systems approaching these Islands from the Atlantic was restricted to the western and northern districts, while the south-east and east remained under the influence of the Continental anticyclone. The wind current was generally strong during the earlier days of the week, and rose to gale force on many parts of our western and south-western coasts, while a strong breeze was occasionally experienced in the east and south-east of England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 124.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate
	Rainfall ...	Very heavy	Heavy	Light	Light	Light	Very light	Very heavy	Heavy	Heavy	Heavy	Heavy	Light
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Very scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 7 weeks from Mar. 5th, 1911.	Warmth ...	**1** * 1	**2** * 2	**2** * 1	**1** * 1	**1** * 1	**0** * 1	**1** * 2	**1** * 2	**0** * 2	**0** * 1	**1** * 3	**0** * 2
	Rainfall ...	**2** * 4	**2** * 3	**1** * 5	**1** * 2	**1** * 3	**2** * 2	**1** * 5	**1** * 4	**3** * 4	**1** * 5	**2** * 3	**2** * 2
	Sunshine ...	**3** * 3	**1** * 4	**0** * 3	**0** * 2	**0** * 4	**1** * 3	**2** * 2	**2** * 1	**1** * 2	**3** * 2	**3** * 1	**1** * 2

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

9576 / 450 Wy. & S., Ltd. 4—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SIXTEENTH WEEK—April 16th to April 22nd, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	59	28	49·5	38·1	43·5	+ 0·2	27	− 1	11	− 6	6	+ 2	2·09	+1·46	24	− 9	24	− 9
Eastern																		
1. SCOTLAND, EAST	65	27	53·0	38·5	45·4	+ 1·7	39	+ 5	10	− 8	6	+ 3	0·74	+0·31	26	− 7	26	− 7
2. ENGLAND, N.E.	62	34	56·7	42·7	49·4	+ 4·9	52	+ 20	0	−12	3	− 1	0·10	−0·26	31	− 4	31	− 4
3. ENGLAND, EAST	69	34	59·8	42·5	50·7	+ 4·9	61	+ 19	0	−12	1	− 2	0·03	−0·33	43	+ 6	44	+ 6
4. MIDLAND COUNTIES	68	35	57·2	42·8	49·6	+ 3·8	53	+ 10	0	−13	3	0	0·17	−0·23	32	− 2	33	− 2
5. ENGLAND, S.E.	66	30	56·4	41·6	48·6	+ 1·6	48	+ 3	1	− 6	1	− 2	0·03	−0·37	43	+ 7	44	+ 6
Western																		
6. SCOTLAND, WEST	60	32	51·6	41·4	46·3	+ 1·2	33	− 3	2	− 9	7	+ 4	1·53	+0·92	19	− 17	19	−17
7. ENGLAND, N.W.	62	37	54·0	44·4	49·0	+ 3·2	49	+ 12	0	− 8	5	+ 2	0·93	+0·48	23	− 13	24	−13
8 ENGLAND, S.W.	61	33	53·0	43·1	47·8	+ 0·9	41	− 2	0	− 6	5	+ 2	0·80	+0·26	21	− 18	21	−19
9. IRELAND, NORTH	61	37	54·0	42·7	48·1	+ 2·2	43	+ 5	0	− 8	7	+ 3	1·07	+0·54	22	− 12	22	−12
10. IRELAND, SOUTH	64	37	55·4	44·6	49·7	+ 2·4	54	+ 10	0	− 5	6	+ 2	1·16	+0·56	17	− 20	17	−20
11. ENGLISH CHANNEL	63	40	55·8	44·1	49·7	+ 0·8	54	+ 5	0	− 1	4	0	0·18	−0·29	46	+ 1	48	+ 1

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 7 Weeks, March 5th to April 22nd, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	60	22	*	*	*	*	98	− 20	179	− 6	25	− 8	4·82	−1·32	183	− 1	30	0
Eastern																		
1. SCOTLAND, EAST	65	17	*	*	*	*	106	− 51	185	−14	30	+ 3	2·56	−0·82	171	−30	28	− 5
2. ENGLAND, N.E.	63	26	*	*	*	*	115	− 47	145	− 8	27	+ 2	1·93	−0·75	170	−50	28	− 8
3. ENGLAND, EAST	69	22	*	*	*	*	144	− 68	152	− 8	24	+ 1	2·54	+0·09	196	−27	32	− 4
4. MIDLAND COUNTIES.. ..	68	22	*	*	*	*	144	− 76	165	0	21	− 1	1·84	−0·92	161	−41	26	− 7
5. ENGLAND, S.E.	66	24	*	*	*	*	157	− 68	134	+21	22	+ 1	2·80	+0·14	204	−18	33	− 3
Western																		
6. SCOTLAND, WEST	60	20	*	*	*	*	149	− 12	156	+13	18	− 9	2·45	−2·62	198	−11	32	− 2
7. ENGLAND, N.W.	62	26	*	*	*	*	146	− 27	129	+ 6	20	− 5	1·98	−1·62	203	+ 6	33	+ 1
8. ENGLAND, S.W.	66	22	*	*	*	*	159	− 60	124	+30	22	− 3	3·51	−0·48	213	−14	35	− 2
9. IRELAND, NORTH	63	22	*	*	*	*	157	− 32	134	+18	20	−10	2·01	−2·07	211	+14	34	+ 2
10. IRELAND, SOUTH	68	23	*	*	*	*	205	− 31	124	+37	26	− 1	3·36	−1·09	225	+ 3	37	+ 1
11. ENGLISH CHANNEL	63	28	*	*	*	*	214	− 44	54	+24	32	+ 5	3·67	+0·37	248	−21	41	− 3

THE YEAR.—Aggregates, &c., for the Period of 16 Weeks, January 1st to April 22nd, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	60	14	*	*	*	*	187	+ 9	398	−117	71	− 8	17·23	+0·13	269	− 3	24	0
Eastern																		
1. SCOTLAND, EAST	65	11	*	*	*	*	191	− 34	469	−107	64	+ 2	6·89	−1·48	314	− 11	28	− 1
2. ENGLAND, N.E.	63	19	*	*	*	*	239	− 3	366	− 88	55	− 3	4·44	−1·63	304	− 42	26	− 4
3. ENGLAND, EAST	69	16	*	*	*	*	256	− 46	405	− 94	60	+ 3	5·80	−0·02	343	− 20	29	− 2
4. MIDLAND COUNTIES.. ..	68	14	*	*	*	*	266	− 58	409	− 92	48	− 7	4·41	−2·53	290	− 32	25	− 3
5. ENGLAND, S.E.	66	16	*	*	*	*	260	− 83	361	− 11	51	− 2	5·92	−1·19	356	0	30	0
Western																		
6. SCOTLAND, WEST	60	18	*	*	*	*	272	+ 22	338	− 67	58	− 9	11·84	−2·08	308	− 8	27	− 1
7. ENGLAND, N.W.	62	17	*	*	*	*	257	− 10	313	− 61	52	− 9	7·27	−2·60	329	+ 19	28	+ 2
8. ENGLAND, S.W.	66	13	*	*	*	*	272	− 98	297	+ 4	55	− 6	8·48	−2·51	355	− 7	30	− 1
9. IRELAND, NORTH	63	18	*	*	*	*	310	− 4	302	− 31	57	−15	7·41	−3·20	343	+ 28	30	+ 3
10. IRELAND, SOUTH	68	18	*	*	*	*	394	− 28	295	+ 43	63	− 2	8·30	−3·70	364	+ 7	31	+ 1
11. ENGLISH CHANNEL	63	28	*	*	*	*	402	− 75	135	+ 26	65	− 3	7·14	−2·07	406	− 31	34	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **R** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	51	22nd	28	17th	45·8	37·0	41·2	—	11	19	7	1·05	—	32·5	—	32	—	Baltasound.
	a Sumburgh Head ..	51	22nd	32	17th	48·0	38·9	43·2	− 0·2	21	9	7	3·07	+ 2·41	15·4	−22·3	15	−22	Deerness.
	a Stornoway	54	22nd	32	17th	48·0	38·9	43·2	− 0·2	21	9	7	3·07	+ 2·41	15·4	−22·3	15	−22	Stornoway.
	a Castlebay, Barra Isd.	51	21st, 22nd	34	18th	48·1	40·4	44·1	− 1·8	21	4	7	2·38	—	13·3	—	13	—	Castlebay.
	a Wick	58	22nd	28	17th	49·7	37·1	43·1	− 0·2	28	14	6	0·95	+ 0·51	*	*	*	*	
	a Strathpeffer ..	59	21st, 22nd	33	16th, 17th	51·9	38·9	45·1	+ 1·4	35	9	7	0·79	+ 0·38	20·5	−13·9	21	−14	Strathpeffer.
b, Mainland.	p Glencarron .. S	55	18th	31	17th	49·5	38·4	43·7	+ 1·2	27	10	6	3·26	+ 2·05	*	*	*	*	
	p Fort Augustus S	56	18th	33	17th	51·0	38·9	44·7	+ 1·0	32	9	7	1·65	+ 1·13	17·9	− 9·3	18	− 9	Fort Augustus.
	p Fort William S	57	18th	33	17th	50·0	40·6	45·1	+ 0·1	28	4	7	4·15	+ 3·22	*	*	*	*	
1. SCOTLAND, E.	p Gordon Castle S	64	22nd	30	17th	54·1	38·2	45·8	+ 1·8	43	11	5	0·40	+ 0·02	31·8	—	32	—	Gordon Castle.
	a Nairn	61	21st, 22nd	31	17th	54·7	37·7	45·8	+ 1·9	45	12	5	0·65	+ 0·33	28·5	—	29	—	Nairn.
	a Aberdeen	65	22nd	32	17th	53·4	39·6	46·2	+ 2·4	39	7	6	0·23	− 0·22	31·6	− 4·9	32	− 5	Aberdeen.
	a Balmoral .. S	58	22nd	28	17th	51·0	35·6	42·9	+ 2·3	33	18	7	1·27	+ 0·74	29·4	—	29	—	Crathes S.
	p Crieff .. .. S	59	22nd	30	17th	50·6	38·0	44·0	− 0·7	31	11	7	1·67	+ 1·17	20·2	—	20	—	Balruddery.
	a Leith	63	22nd	36	17th	55·6	41·1	48·0	+ 2·7	46	3	6	0·30	+ 0·02	*	*	*	*	
	p West Linton .. S	59	22nd	27	17th	51·2	37·3	43·9	+ 2·1	33	13	7	1·21	—	22·4	—	23	—	West Linton.
	p Marchmont .. S	59	21st	32	17th	53·0	40·3	46·4	+ 3·6	38	5	6	0·22	− 0·26	21·9	−11·5	22	−12	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	61	22nd	34	17th	55·9	41·0	48·1	+ 4·5	47	3	3	0·06	− 0·37	18·7	—	19	—	Cockle Park.
	a Shields	61	22nd	38	17th, 18th	55·9	40·1	47·6	+ 3·5	47	5	4	0·12	− 0·22	28·3	+ 2·8	29	+ 3	Newcastle.
	p Durham	58	21st	34	22nd	54·4	39·4	46·5	+ 2·7	42	7	4	0·19	− 0·15	29·5	− 2·0	30	− 2	Durham.
	p Rounton .. M	60	22nd	40	17th	56·0	43·5	49.5	+ 5·8	53	0	5	0·09	− 0·29	*	*	*	*	
	p Scarborough .. M	60	22nd	42	20th	57·7	44·3	50·7	+ 6·2	61	0	1	0·05	− 0·35	34·6	—	35	—	Scarborough.
	p York	61	21st	43	20th	58·1	44·7	51·1	+ 5·1	64	0	1	0·11	− 0·29	21·5	−10·7	22	−11	York.
b, South.	a Spurn Head	60	21st	43	16, 20, 21st	58·9	44·0	51·1	+ 4·9	64	0	2	0·13	− 0·21	40·0	—	41	—	Skegness.
	a Lincoln	62	21st	41	16th	57·0	43·0	49·7	+ 3·7	54	0	2	0·06	− 0·29	39·7	—	41	—	Rauceby.
	a Fulbeck	62	22nd	41	16th										52·4	—	54	—	Lowestoft.
3. ENGLAND, E. — a, North.	p Cromer	68	22nd	39	21st	62·2	42·6	51·9	+ 7·6	69	0	3	0·04	—	37·0	—	38	—	Cromer.
	p Hillington .. M	68	22nd	38	17th	60·9	41·6	50·8	+ 5·1	63	1	2	0·04	− 0·36	35·5	− 1·0	37	− 1	Hillington.
	a Yarmouth	65	22nd	40	16th	58·0	43·0	50·1	+ 5·5	57	0	1	0·08	− 0·27	44·1	—	46	—	Yarmouth.
	a Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	
	p Geldeston	68	22nd	39	21st	61·1	41·8	51·0	+ 5·3	64	1	1	0·04	− 0·32	47·7	+ 9·7	49	+10	Geldeston.
	p Cambridge	69	22nd	37	17th	61·0	42·2	51·2	+ 4·5	64	0	0	0·00	− 0·35	42·9	+ 5·0	44	+ 5	Cambridge.
b, South.	a Felixstowe	60	22nd	39	16th	55·9	42·7	49·0	+ 3.3	49	0	1	0·01	—	60·6	—	63	—	Felixstowe.
	a Clacton-on-Sea ..	59	22nd	40	16th	55·6	43·4	49·2	+ 3·6	50	0	0	0·00	—	52·8	—	54	—	Clacton.
	a Rothamsted ..	65	22nd	34	17th	59·0	40·6	49·4	+ 3·7	58	4	0	0·00	− 0·37	41·6	+ 6·1	43	+ 6	Rothamsted.
	a Shoeburyness ..	64	22nd	40	16th, 17th	57·9	43·3	50·3	+ 2·7	58	0	0	0·00	− 0·25	44·6	—	46	—	Southend.
	p Tottenham	66	22nd	41	16th	60·4	44·7	52·2	+ 5·4	71	0	0	0·00	—	39·2	—	41	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	59	21st	41	17th, 21st	54·9	43·1	48·7	+ 4·5	47	0	3	0·40	− 0·03	30·4	—	31	—	Harrogate.
	a Bawtry	61	21st	40	19th	58·9	44·4	51·3	+ 5·2	65	0	3	0·07	− 0·26	25·3	− 5·9	26	− 6	Worksop.
	p Buxton .. M	56	22nd	39	20th	53·0	42·9	47·7	+ 5·0	40	0	5	0·62	− 0·06	23·2	—	24	—	Buxton.
	a Nottingham ..	60	18th, 22nd	39	16th	57·4	43·1	49·9	+ 3·9	55	0	5	0·17	− 0·19	29·5	—	30	—	Nottingham.
	p Birmingham, Edgbsn	60	18th	40	17th	55·7	42·8	48·9	+ 3·0	48	0	4	0·06	− 0·36	22·9	—	24	—	Birmingham.
	a Raunds .. M	68	22nd	37	16th	60·4	42·0	50·8	+ 5·1	62	0	1	0·02	—	*	*	*	*	
	a Oxford	64	22nd	40	17th	58.6	43·0	50·4	+ 3·5	59	0	2	0·02	− 0·32	38·3	+ 2·6	40	+ 3	Oxford.
b, West.	a Cheadle .. M	60	16th	38	16th	56·0	40·9	48·1	+ 3·2	47	3	4	0·16	− 0·30	32·5	—	33	—	Sheffield.
	p Shrewsbury ..	58	21st	41	17th	55·2	44·1	49·3	+ 2·3	51	0	3	0·18	—	*	*	*	*	
	a Hereford .. M	60	21st	35	17th	56·1	42·8	49·1	+ 2·2	50	0	4	0·44	+ 0·04	*	*	*	*	
	a Cirencester	65	22nd	36	17th	59·2	39·8	49·0	+ 3·6	58	6	2	0·11	− 0·30	35·2	− 2·1	36	− 2	Cirencester.
	a Bath	60	22nd	40	17th	57·4	44·4	50·6	+ 3·6	60	0	3	0·19	− 0·26	39·7	—	41	—	Bath.
															51·7	—	53	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	63	22nd	39	18th.	58·9	42·9	50·5	+ 3·3	60	0	0	0·00	− 0·33	40·9	+ 5·5	42	+ 6	Kew.
	a Marlborough ..	61	22nd	32	17th	56·5	39·7	47·7	+ 2·0	50	6	5	0·18	− 0·27	31·4	− 2·1	32	− 2	Marlborough.
	a Margate	66	22nd	38	16th	60·2	41·7	50·5	+ 3·7	61	1	1	0·01	− 0·29	43·3	+ 6·5	45	+ 7	Margate.
	a Wisley, Surrey ..	64	22nd	35	17th	59·5	42·2	50·4	+ 2·4	59	0	1	0·01	—	45·0	—	46	—	Wisley.
	a Swarraton .. M	61	18th, 22nd	30	17th	57·0	40·1	48·1	+ 2·1	51	5	1	0·05	− 0·39	41·7	—	43	—	Worthing.
	a Tunbridge Wells M	61	17, 18, 22nd	35	16th	57·8	39.9	48·4	+ 2·2	54	6	0	0·00	− 0·38	46·1	+ 7·9	48	+ 8	Tunbridge Wells.
	a Dungeness	55	22nd	37	17th	52·1	41·9	46·8	+ 0·5	34	0	0	0·00	− 0·30	44·3	—	46	—	Littlestone.
	p Hastings	54	18th, 22nd	38	16th	52·2	41·9	46·8	0·0	34	0	0	0·00	− 0·37	48·3	+ 7·2	50	+ 7	Hastings.
	p Southampton ..	59	17th	34	17th	56·4	42·7	49·2	+ 0·5	50	0	1	0·02	− 0·40	35·8	− 3·8	37	− 4	Southampton.
	a Ventnor	54	16, 17, 19, 22	39	17th	53·5	42·7	47·8	− 0·4	41	0	2	0·03	− 0·36	49·4	+ 6·6	52	+ 7	Ventnor.
															51·4	+10·6	53	+11	Eastbourne.
LONDON .. — ..	a Westminster ..	66	22nd	40	17th	60·1	44·1	51·7	+ 4·4	63	0	0	0·00	− 0·32	39·7	+12·5	41	+13	Westminster.
	a Greenwich	67	22nd	37	17th	61·7	42·1	51·4	+ 4·1	66	0	0	0·00	− 0·32	40·0	+ 5·2	41	+ 5	Greenwich.
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	54	21st, 22nd	32	17th	50·3	41·7	45·8	+ 0·6	28	1	7	2·55	+ 1·96	*	*	*	*	
	p Glasgow	59	22nd	36	17th	51·9	42·0	46·7	+ 1·8	33	0	7	1·08	+ 0·61	18·1	−12·2	18	−12	Glasgow.
	p Rothesay .. S	57	21st, 22nd	34	16th, 17th	52·0	41·6	46·6	+ 1·1	34	1	7	1·65	+ 1·06	*	*	*	*	
	a Kilmarnock ..	60	22nd	33	17th	53·6	40·4	46·7	+ 1·8	40	4	7	1·03	—	14·6	—	15	—	Kilmarnock.
	a Colmonell ..	60	22nd	36	17th	52·2	41·9	46·8	+ 1·6	34	0	7	2·08	+ 1·53	*	*	*	*	
	p Dumfries ..	55	22nd	32	20th	51·7	39·6	45·4	− 0·1	34	7	7	1·39	+ 0·87	17·7	—	18	—	Dumfries.
	p Cally, Gatehouse S	52	16, 20, 22nd	37	17th	51·1	40·8	45·7	+ 0·9	31	3	7	1·44	+ 0·74	*	*	*	*	
b, ISLE OF MAN ..	p Douglas	53	16th	41	17th, 20th	49·8	43·2	46·3	+ 1·2	30	0	7	0·99	+ 0·41	19·7	−23·0	20	−24	Douglas.
															29·3	—	30	—	Hoylake.
7. — a, ENGLAND, N.W. ..	p Aspatria	57	18th	39	17th	52·6	42·4	47·3	+ 2·9	37	0	7	1·76	+ 1·25	23·4	—	24	—	Aspatria.
	p Newton Rigg ..	56	19th	37	17th	51·3	41·2	46·0	+ 2·3	31	2	7	1·02	+ 0·52	20·2	−15·4	21	−16	Newton Rigg.
	p Stonyhurst	57	22nd	42	17, 20, 21st	54·4	43·4	48·6	+ 3·9	46	0	5	0·67	+ 0·04	26·6	− 8·8	27	− 9	Stonyhurst.
	p Blackpool .. M	57	18th	41	19th	53·6	43·9	48·5	+ 2·9	46	0	5	0·89	+ 0·46	28·5	− 8·3	29	− 9	Blackpool.
	p M'nch'ster, Prestwich	60	21st	?42	19th	56·5	44·8	50·4	+ 5·2	59	0	3	0·52	+ 0·02	18·4	−11·6	19	−12	Prestwich.
	a Liverpool (Bidston)	59	21st	43	20th, 21st	54·9	45·3	49·9	+ 4·1	55	0	6	0·57	+ 0·19	23·1	—	29	—	Liverpool.
	a Hawarden Bridge ..	62	22nd	44	20th	56·7	45·9	51·0	+ 3·8	63	0	4	0·22	− 0·08	35·2	− 3·5	36	− 4	Southport.
															36·3	—	37	—	Rhyl.
	p Llandudno .. M	59	22nd	44	20th	54·5	46·2	50·2	+ 3·4	57	0	4	0·78	− 0·37	32·7	− 4·3	33	− 4	Llandudno.
b, NORTH WALES ..	a Holyhead	55	16th	40	16th	51·3	43·4	47·2	+ 1·0	36	0	6	1·19	+ 0·73	16·0	—	17	—	Aberdovey.
	p Bettws-y-Coed ..	57	22nd	42	20th	52·9	45·4	49·0	+ 2·6	49	0	6	1·66	—	15·2	—	16	—	Bettws-y-Coed.
															17·8	—	18	—	Aberystwyth.
	a Llangammarch Wells	54	16th	40	20th	52·0	42·7	47·1	+ 2·3	36	0	6	1·45	—	11·3	—	12	—	Llangammarch Wells.
8. — a, SOUTH WALES ..	a Pembroke	51	16th, 18th	42	20th	49·6	44·0	46·7	+ 0·4	33	0	6	0·96	+ 0·50	20·4	−21·4	21	−22	Pembroke.
	p Cardiff	56	17th, 22nd	41	17th	53·7	43·5	48·4	+ 0·2	45	0	6	1·46	+ 0·89	27·3	—	28	—	Cardiff.
															21·5	−21·8	22	−22	Tenby.
	a Clifton	60	22nd	42	17th	56·5	44·6	50·3	+ 2·5	58	0	4	0·48	− 0·04	32·3	—	33	—	Clifton.
	a Shaftesbury .. M	58	17th	38	17th	53·8	40·2	46·7	+ 1·0	40	5	5	0·19	− 0·34	*	*	*	*	
	a Arlington	55	17th	35	17th	52·4	41·0	46·4	+ 0·7	38	3	4	1·60	+ 0·92	24·6	−15·7	26	−16	Newquay.
b, ENGLAND, S.W. ..	a Cullompton .. M	61	22nd	33	17th	56·8	43·1	49·6	+ 2·5	53	0	6	0·66	+ 0·15	26·2	−10·2	27	−11	Cullompton.
	a Portland Bill ..	52	22nd	42	17th	49·7	44·3	46·9	− 0·4	34	0	2	0·05	—	36·5	—	38	—	Weymouth.
	p Plymouth	54	16th, 20th	37	17th	52·3	43·3	47·6	− 0·5	39	0	5	0·49	− 0·03	23·5	−16·5	25	−17	Plymouth.
	p Falmouth	56	22nd	40	17th	53·2	44·1	48·4	+ 0·7	45	0	5	0·70	+ 0·10	19·9	−22·7	21	−24	Falmouth.
															40·8	—	43	—	Salcombe.
															37·7	− 4·0	39	− 4	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	55	18, 21, 22nd	37	17th	51·4	41·0	46·0	+ 0·7	32	3	7	0·98	+ 0·55	*	*	*	*	
	a Blacksod Point ..	56	18th	39	20th	52·7	44·0	48·1	+ 1·2	43	0	7	1·63	+ 0·97	*	*	*	*	
	p Markree Castle ..	59	22nd	39	20th	56·3	42·6	49·1	+ 3·6	50	0	7	1·22	+ 0·64	21·3	−13·1	22	−13	Markree Castle.
	a Birr Castle	61	21st	37	20th	55·3	42·7	48·7	+ 2·4	47	0	6	0·94	+ 0·46	19·2	−16·7	20	−17	Birr Castle.
b, East.	p Armagh	61	22nd	38	20th	54·8	43·0	48·6	+ 2·9	46	0	6	0·98	+ 0·50	22·4	−11·7	23	−12	Armagh.
	p Donaghadee	59	21st, 22nd	40	20th	53·3	43·0	47·9	+ 2·4	41	0	7	0·67	+ 0·21	*	*	*	*	
10. IRELAND, S. — a, East.	p Dublin, City ..	64	22nd	41	20th	58·2	46·0	51·8	+ 4·0	69	0	5	0·97	+ 0·55	28·7	− 9·7	29	−10	Phœnix Park.
	a Kilkenny	61	22nd	39	20th	56·3	44·3	50·0	+ 3·5	56	0	6	1·15	+ 0·65	*	*	*	*	
	a Waterford	57	16th, 19th	40	20th	54·1	43·9	48·8	+ 2·2	48	0	7	0·92	+ 0·35	*	*	*	*	
	a Birr Castle	61	21st	37	20th	55·3	42·7	48·7	+ 2·4	47	0	6	0·94	+ 0·46	19·2	−16·7	20	−17	Birr Castle.
b, West.	a Foynes	61	22nd	39	20th	56·4	45·1	50·5	+ 3·1	60	0	6	0·62	+ 0·07	*	*	*	*	
	a Cahir .. .. M	62	22nd	39	20th	56·7	43·3	49·7	+ 3·7	54	0	7	1·32	—	*	*	*	*	
	a Killarney	60	22nd	39	20th	56·1	45·5	50·6	+ 3·4	60	0	6	1·57	+ 0·80	*	*	*	*	
	a Valencia	56	22nd	43	19, 20, 21st	53·4	46·0	49·5	+ 1·4	53	0	7	1·75	+ 0·86	5·7	−31·6	6	−33	Valencia.
	a Roche's Point ..	55	16th	41	16th, 20th	51·9	44·4	48·0	+ 0·2	42	0	7	1·17	+ 0·54	14·0	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	55	16th	40	20th	52·9	43·6	48·0	− 0·7	42	0	5	0·34	− 0·10	21·1	−21·0	22	−22	Scilly.
	a Jersey, St. Aubins ..	63	22nd	40	17th	57·1	44·6	50·6	+ 1·6	60	0	3	0·04	− 0·14	54·2	+ 9·2	57	+10	St. Heliers.
	a Guernsey	62	22nd	40	17th	57·3	44·2	50·4	+ 1·6	59	0	3	0·15	− 0·40	61·9	+15·9	65	+17	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 40·8 hrs. (+ 0·2 hrs.), 42 % (0 %); *Bournemouth*, 45·6 hrs., 47 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	42·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	42.5
	Crathes	2	20	44·1	42·5
	Balmoral	2	23	—	—
	West Linton	—	—	—	—
	Marchmont	—	—	43·3	—
2.	Cockle Park	1	29	43·9	42·7
	Durham	? 1	? 29	—	—
	York	—	—	45·8	43·8
	Hull	0	38	46·7	43·3
	Lincoln	—	—	45·9	43·1
	Rauceby	1	29	48·3	44·4
3.	Norwich	—	—	—	—
	Yarmouth	—	—	48·3	46·0
	Lowestoft	0	33	48·4	44·9
	Cambridge	0	31	48·0	45·6
	Clacton-on-Sea	1	29	47·3	46·0
	Southend	0	31	49·1	—
	Tottenham	0	34	—	45·7
4.	Harrogate	0	37	44·0	43·1
	Huddersfield	0	39	46·0	41·8
	Buxton	0	32	45·3	41·9
	Sheffield	0	37	45·8	42·0
	Nottingham	0	36	47·7	42·6
	Birmingham	0	34	45·0	43·6
	Oxford	0	—	—	—
	Hereford	1	28	—	—
	Cirencester	1	30	45·2	44·0
	Bath	—	—	48·3	45·7
5.	Margate	—	—	46·5	44·4
	Greenwich	1	29	—	—
	Westminster	0	32	—	—
	Kew	1	29	47·7	44·8
	Canterbury	0	31	46·8	45·4
	Tunbridge Wells	2	28	47·2	—
	Wisley	1	29	47·5	44·8
	Worthing	1	30	48·2	45·7
	Portsmouth	1	30	49·2	47·2
6.	Glasgow	1	26	—	—
	Rothesay	—	—	—	44·4
	Colmonell	0	35	—	—
6.	Dumfries	1	30	45·4	44·4
	Douglas	0	38	—	—
7.	Aspatria	0	35	46·3	44·3
	Newton Rigg	0	35	44·5	42·7
	Burnley	0	33	45·0	42·1
	Southport	0	37	49·2	45·5
	Manchester City	0	42	47·0	44·3
	Bettws-y-Coed	0	41	46·1	44·4
8.	Llangammarch Wells	1	30	45·0	43·8
	Cardiff	0	38	46·9	44·1
	Clifton	0	37	—	—
	Plymouth	2	27	49·0	—
9.	Armagh	0	37	41·9	45·3
	Markree	0	34	48·2	45·6
10.	Dublin, Trin. Coll.	0	33	48·7	46·1
11.	Guernsey, Brooklyn	1	28	47·9	46·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	44	44·0
	Kirkwall	45	43	44·0
	Wick	45	44	44·1
SCOTLAND, E.	Cromarty	41	39	40·2
	Pennan Bay	44	42	43·2
	Aberdeen, Cove Bay	45	44	44·3
ENGLAND, N.E.	Burnmouth, Berwick	42	42	42.0
	Scarborough	46	43	44·1
ENGLAND, E.	Shipwash Lightship	46	43	44·5
	Margate‡	47	44	45·5
ENGLAND, S.E.	Eastbourne‡	46	43	44·7
SCOTLAND, W.	Lamlash	47	47	47·0
	Ballantrae	44	43	43·6
ENGLAND, N.W.	Port Erin	46	45	45·1
ENGLAND, S.W.	Newquay	48	46	47·2
	Scilly	50	47	49·0
	Plymouth‡	47	47	47·0
	Salcombe	49	44	46·4
IRELAND, N.W.	Sheephaven	48	48	48·0
	Teelin	49	46	47·5
IRELAND, S.W.	Cleggan	50	43	47·5
	Seafield	51	48	49·9
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR MARCH, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

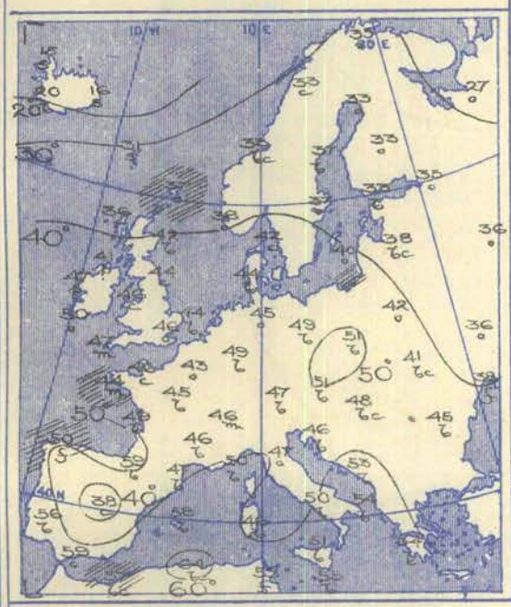
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°.	Below 42°.	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
Station Values.—Additions.																		
No. 10, p. 82	11. English Channel	—	—	—	—	—	—	—	—	—	—	—	—	—	28	−1	36	− 1
No. 11, p. 90	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	—	—	29	+9	36	+11
No. 11, p. 90	3. England, E.	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 13, p. 106	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	—	—	24	−3	28	− 4
Station Values.—Additions.																		
No. 10, p. 83	Buxton	46	5th	29	8th	43·3	32·5	37·7	+0·7	4	33	5	0·86	−0·05	22·3	—	29	—
No. 10, p. 83	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	26·5	—	34	—
No. 11, p. 91	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	16·5	—	20	—
No. 12, p. 99	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	35·6	—	42	—
No. 12, p. 99	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	45·9	—	55	—
No. 13, p. 107	Strathpeffer	52	29th	29	29th	47·5	34·7	40·9	+0·3	15	28	3	0·07	−0·43	12·5	−12·3	14	−14
No. 13, p. 107	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	32·4	—	37	—
Station Values.—Corrections.																		
No. 9, p. 75	Strathpeffer	—	—	—	—	—	35·7	41·3	+3·5	—	24	—	—	—	—	—	—	—
No. 9, p. 75	Scarborough	—	—	—	—	—	—	—	—	—	—	5	0·29	−0·14	—	—	—	—
No. 9, p. 75	Swarraton	—	—	—	—	50·2	—	45·2	+6·0	29	—	—	—	—	—	—	—	—
No. 9, p. 75	Glasgow	—	—	—	—	48·6	38·9	43·6	+4·3	24	9	—	—	—	—	—	—	—
No. 10, p. 83	Newcastle	—	—	—	—	—	—	—	—	—	—	—	—	—	17·1	−0·4	22	− 1
No. 10, p. 83	Westminster	—	—	—	—	—	—	—	—	—	—	—	—	—	9·8	−3·2	13	− 4
No. 10, p. 83	Markree Castle	—	—	—	—	—	—	—	—	—	—	—	—	—	27·1	+6·1	35	+ 8
No. 10, p. 83	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	36·0	+7·9	46	+10
No. 11, p. 91	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	27·3	+4·8	34	+ 6
No. 11, p. 91	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·99	+0·58	—	—	—	—
No. 11, p. 91	Tottenham	47	—	—	—	43·9	—	39·0	−2·5	5	27	—	—	—	—	—	—	—
No. 11, p. 91	Cheadle	—	—	—	—	—	30·6	36·2	−3·3	1	39	—	—	—	—	—	—	—
No. 11, p. 91	Bettws y-Coed	—	—	—	—	44·4	—	39·6	−2·5	7	—	—	—	—	—	—	—	—
No. 12, p. 99	Durham	—	—	33	25th	—	35·0	37·7	−2·5	—	30	—	—	—	—	—	—	—
No. 12, p. 99	Cheadle	—	—	—	—	—	34·3	39·8	−0·4	—	28	—	—	—	—	—	—	—
No. 13, p. 107	Hereford	—	—	—	—	48·1	—	42·3	−1·2	—	24	—	—	—	—	—	—	—
No. 13, p. 107	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	—	—	18·9	−15·3	22	−18
No. 13, p. 107	Stonyhurst	—	—	33	26th	—	38·2	43·3	+1·7	—	11	—	—	—	—	—	—	—
No. 13, p. 107	Malin Head	—	—	—	—	47·0	—	42·9	0·0	19	—	—	—	—	—	—	—	—

		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.—Additions.					
No. 10, p. 84	Buxton	5	24	40·6	41·8
No. 11, p. 92	Bath	—	—	41·4	43·8
No. 12, p. 100	Lowestoft	0	31	41·8	42·4
Station alues.—Corrections.					
No. 12, p. 100	Baltasound	—	—	38·2	—

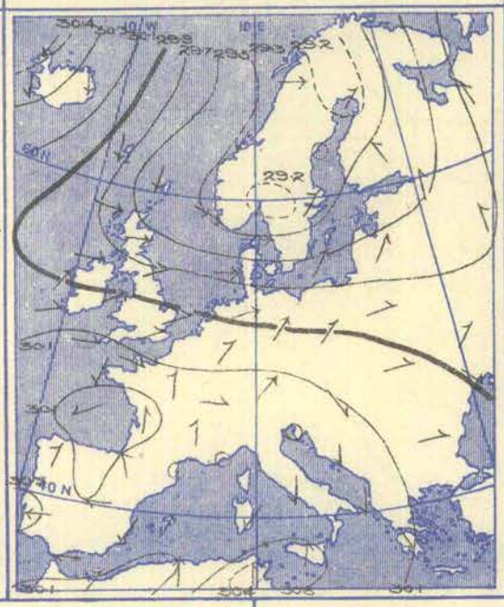
		Temperature of the Sea. Highest.	Lowest	Mean.
Station Value.—Additions.				
No. 13, p. 108	Shipwash Lightship	43	40	41·4

Sunday, 16th April, 1911.

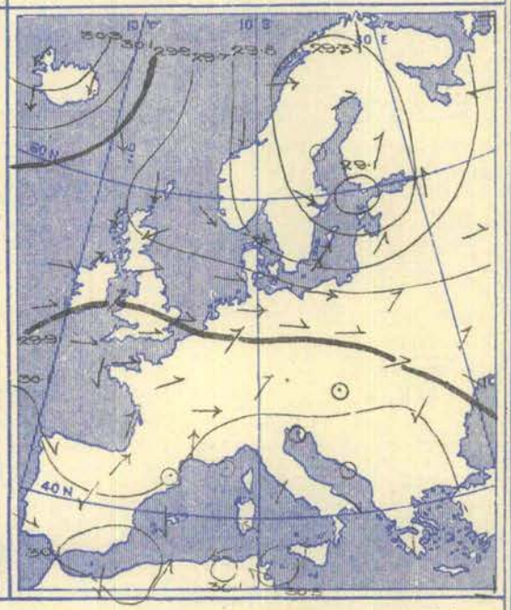
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to fine over the major portion of our area, but rain falling in the north-west of Ireland and the Hebrides and snow in the north-east of Scotland, as well as at Karlstad and Uleaborg. Rainy at Malaga. Rain and snow showers later in Scotland and some rain in Ireland and the north of England. Rain or snow falling over a large area in Scandinavia, Finland, and northern Russia.

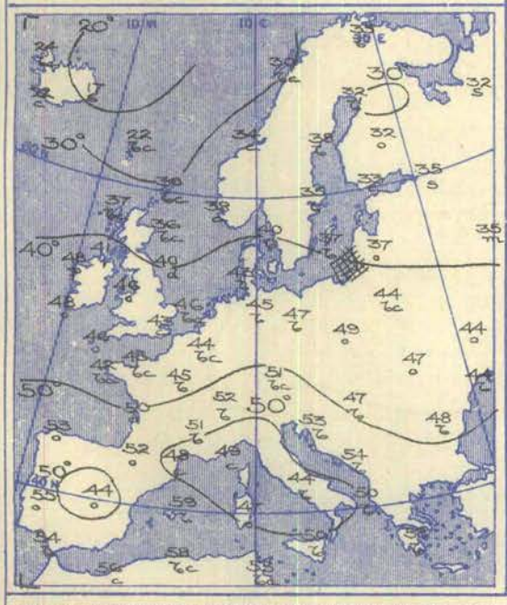
Temperature risen over France, Germany, and the south of these Islands, fallen in Scotland and Scandinavia. Morning readings 64° at Algiers and above 50° at some stations in central Europe and France. Below 40° in the north-east of Scotland and over the greater part of northern and north-eastern Europe, and as low as 27° at Archangel. Maxima during day between 55° and 60° at many places over the southern half of England, about 70° at several stations in France and Algeria, as well as locally in Austria-Hungary and South Germany. Frost at night in Scotland.

Wind in morning light to fresh from the Westward over these Islands and blowing a gale from that quarter over the south of Scandinavia. Drawing into South and falling light over the Gulf of Bothnia and Finland. A fresh breeze from South prevailing in Algeria and a strong breeze from North-East at Alicante, but winds light and rather variable in the south of our area generally. Increasing to a gale from the Westward later over the Baltic, but becoming moderate in Scandinavia.

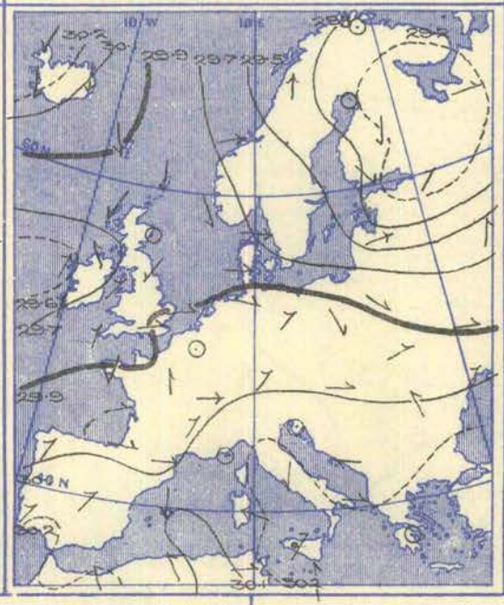
Barometer in morning above 30·4 in. in the west of Iceland and above 30·2 in. over Italy, the Adriatic and much of the surrounding region; above 30·3 in. at Lisbon. Below 29·2 in. in a minimum over northern Scandinavia and also in another in the south of Norway, and below 30·1 in. in a very shallow disturbance over the Bay of Biscay. Northern depressions moving Eastward later and undergoing considerable modification in form. Pressure increasing rather decidedly in Scotland, but decreasing in the south-west and south of these Islands and also over France.

Monday, 17th April, 1911.

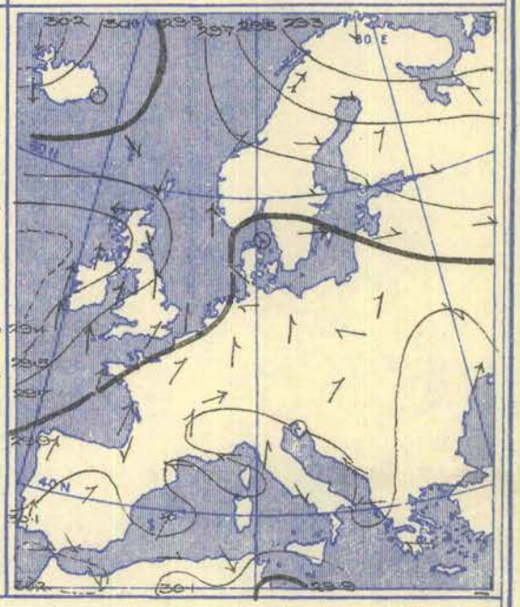
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning mostly cloudy or overcast in these Islands, with rain at North Shields and at some places in the extreme north-west; fog prevailing on the Straits of Dover and at Newquay. Fair to fine and bright in most Continental regions, but overcast in some districts, both in the south and north, and snow falling at St. Petersburg and Archangel, rain at Turin. Some rain later in the west and north of the United Kingdom, between 0·5 in. and 1·0 in. in the far west and north-west, and a little snow in Russia and Scandinavia. As much as 0·8 in. of rain experienced at Brindisi. Remaining fair to fine over the greater portion of England.

Temperature showing no decided change. Morning readings above 55° at a few places in the extreme south of our area, and above 45° in several parts of these Islands, and throughout France and central Europe. Below 20° in eastern Iceland, 22° at Thorshavn, and 30° in Shetland and in the north of Finland. Rising to above 60° during day at various places in the south-east of England, but remaining below 50° at some stations on the coast of Sussex, and only touching 45° in the north-east of Scotland. Maxima above 70° over a wide area in France and about 70° in some parts of Austria-Hungary.

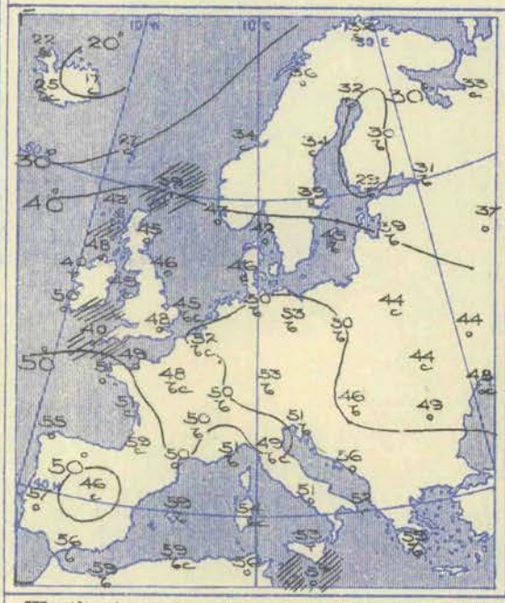
Wind in morning light to moderate from between West and South over the United Kingdom and France, light to strong from the Northward in Iceland, strong from the Westward over the south of Scandinavia and strong to a gale from that direction on the Baltic. Generally light and rather variable over the Mediterranean and Italy. Wind becoming more Southerly over these Islands by evening, and backing to South on the west and north-west coasts of Norway; blowing a gale at Bodö. Decreasing greatly in force on the Baltic.

Barometer in morning above 30·2 in. in the extreme south-west of our area and also in the west of Iceland. Below 29·2 in. in a large depression centred over Finland, and below 29·5 in in another system some distance to the west of Ireland. Latter approaching nearer to this country during day, and barometer falling slowly over the whole of the United Kingdom and the nearer regions of the Continent, as well as over Iceland.

Tuesday, 18th April, 1911.

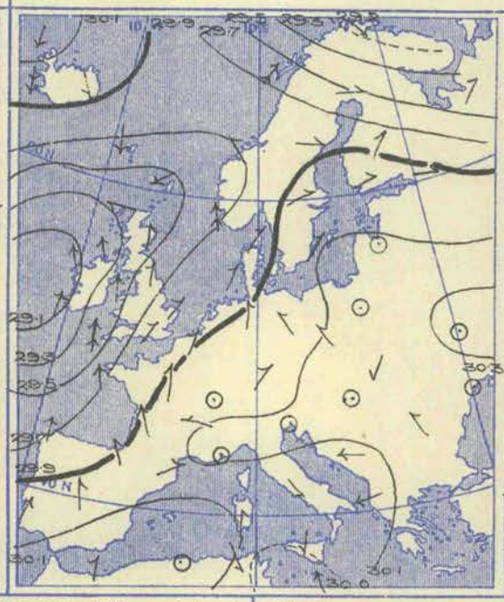
Temperature and Weather.

7 a.m.

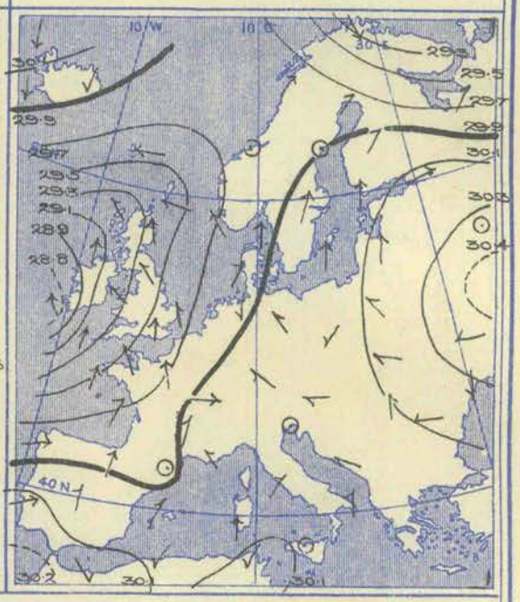


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at several of our western and north-western stations and also at Nottingham, and overcast over a considerable portion of the United Kingdom, but fair to fine in the south-east and over the major part of the Continent. Rain falling at Oporto and Brindisi and snow at Karlstad and Vardö. Rain later in Ireland, Scotland, Wales, and many parts of England, but amounts mostly slight except in the extreme west and north-west. A little precipitation experienced in a few Continental regions.

Temperature risen in most districts. Morning readings ranging from nearly 60° at some stations in the extreme south to about 50° in various parts of Ireland and England, France and Germany, and to 32° or rather lower in Finland. Rising subsequently to 60° in the south-east of England, to 70° or higher in many French and German localities as well as at Bucharest and in Algeria. Maxima below 65° over a large portion of Italy; only 60° at Malta and 56° at Palermo.

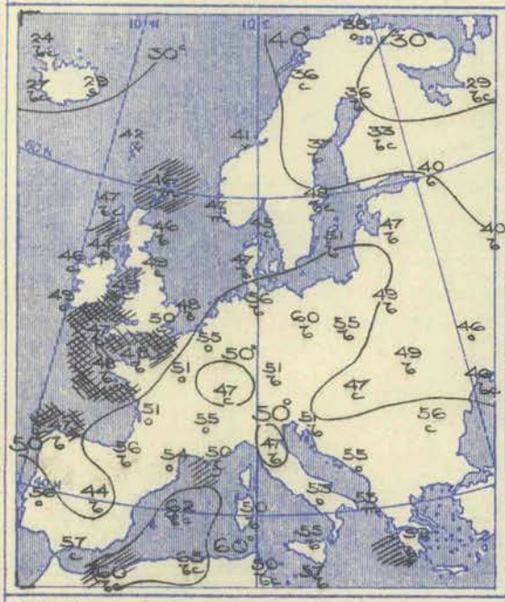
Wind in morning Southerly over the United Kingdom except in the extreme north, fresh or strong in the west and south-west, and blowing a gale at Scilly. Strong or high from the Southward in Portugal, and strong to a gale from South or South-West on the west coast of Norway. A Northerly gale prevailing in the west of Iceland and strong gales from the North-Westward on the Atlantic about 300 miles to the westward of Ireland. Light breezes, rather variable in direction, general in the south and east of our area. Increasing to a gale from the Southward later over a large portion of these Islands, but little change occurring on the Continent.

Barometer in morning above 30·3 in. in Little Russia and above 30·1 in. in the north-west of Iceland; below 29·1 in. in a large and deep depression having its minimum off the west coast of Ireland. Pressure giving way decidedly during day in this country, and becoming as low as 28·8 in. on the west coast of Ireand. Barometer rising both in Russia and Iceland. A large depression in the far north of our area moving Eastward.

Wednesday, 19th April, 1911.

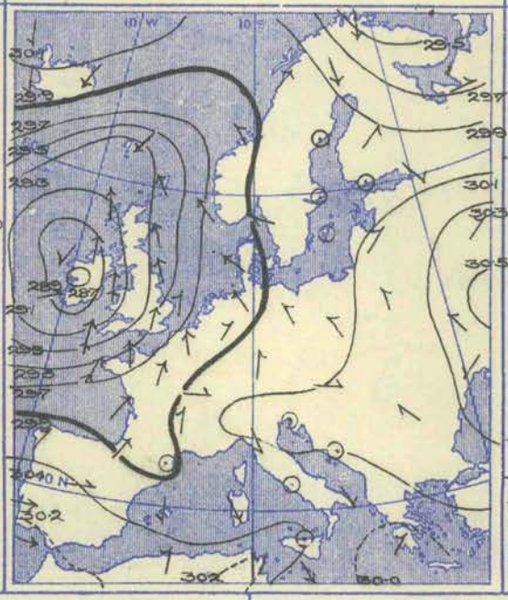
Temperature and Weather.

7 a.m.

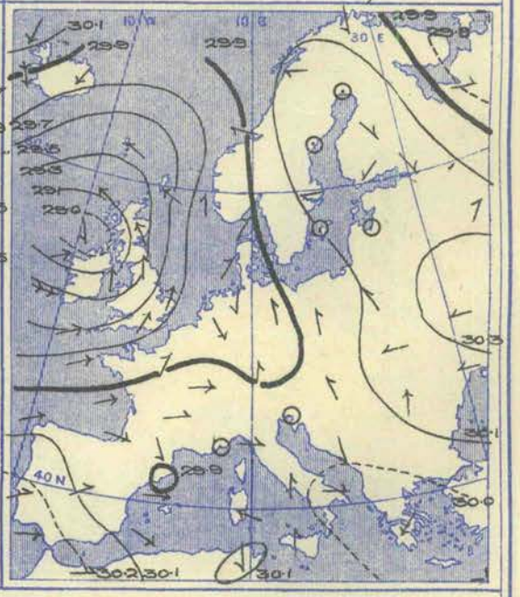


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough and squally over these Islands and their vicinity, with a good deal of cloud, and rain or passing showers at several of our western and south-western stations and in Brittany. Fair to fine in almost all other parts of our area, but rainy at Christiansund. Rain experienced later in most districts of this country except the east or south-east of England and considerable or heavy falls in many French localities; about an inch in the extreme south. A thunderstorm occurring at Perpignan.

Temperature risen in most regions. Readings in morning as high as 65° at Algiers and between 55° and 60° at several other southern stations and also in North Germany. A little below 50° over a large portion of England and Ireland and Austria-Hungary; Below 32° at some places in the extreme north of our area. Maxima during day 79° at Berlin and 70° or above in most parts of central Europe, as well as at Bucharest, and in Greece and Algeria. Thermometer touching 59° in some parts of England, but only 48° at Pembroke and Donaghadee.

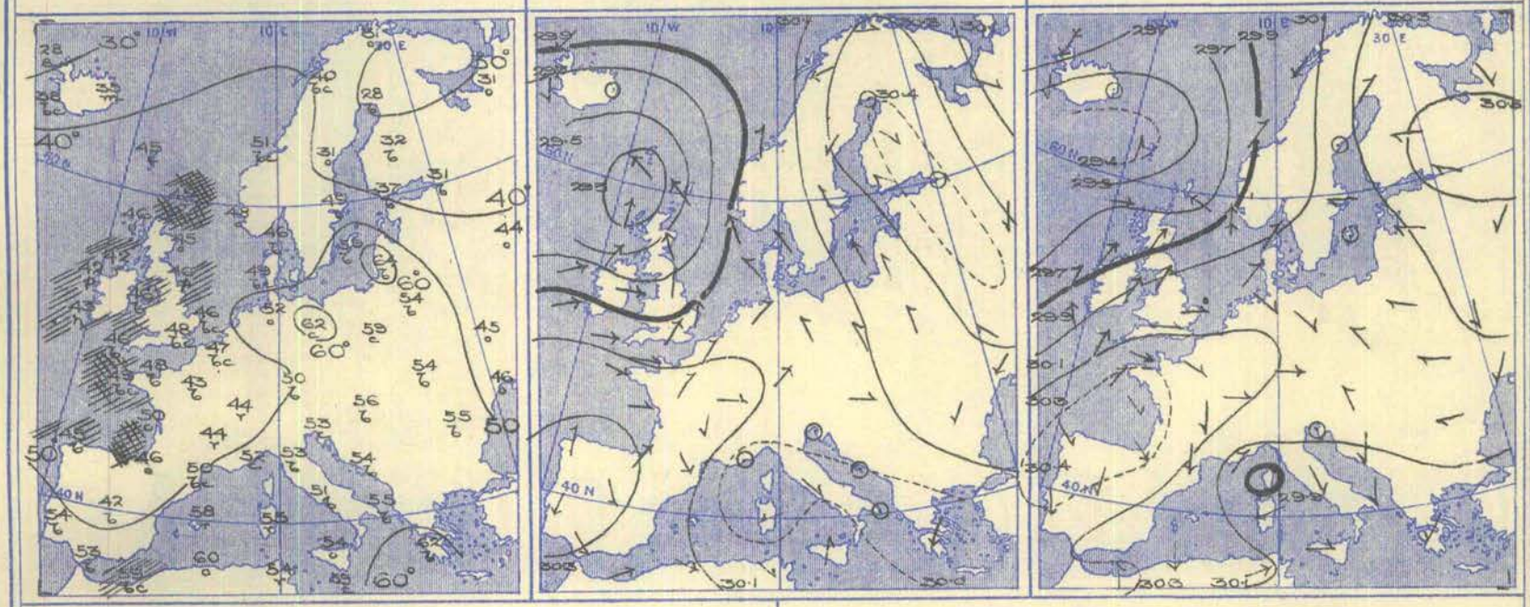
Wind in morning strong to a gale from south or south-east over the greater portion of England, Ireland, and the English Channel, fresh or strong in Scotland, and moderate from the northward in Iceland. A strong North-Westward breeze prevailing in the far north of the Continent, but light airs—mostly between east and south—over the central countries, and light or moderate breezes from varying directions over Italy and the Mediterranean.

Barometer at 7 a.m. below 28·8 in. in a large depression having its centre between Birr Castle and Blacksod Point, and relatively low in the extreme north and south-east of the Continent. Above 30·6 in. in an anticyclone with its maximum over central Russia, and above 30·2 in. over Morocco. Disturbance moving slowly Northward during day and becoming somewhat less deep. Pressure increasing rapidly in its rear over the south of Ireland.

Thursday, 20th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine over the greater portion of the Continent, but rain falling at several stations in France and the Mediterranean region. Fair to overcast in these Islands, and showery at various places in Ireland and the northern half of England. Some rain later over the greater portion of these Islands; between 0·3 in. and 0·4 in. at some western stations. Heavy rain falling in Tunis, a thunderstorm occurring at Algiers, and snow falling at Setif. Some rain experienced at Malta and Palermo.

Temperature fallen generally. Morning readings ranging from about 60° at some stations in the extreme south and also in Prussia to below 50° at nearly all places in these Islands, France, and the Netherlands, and to slightly below 32° in the far north of the Continent. Thermometer rising to above 55° at several of our own stations during day and over the major portion of France. Maxima above 70° very generally in central Europe, and as high as 79° at Memel, but below 65° at many Italian stations.

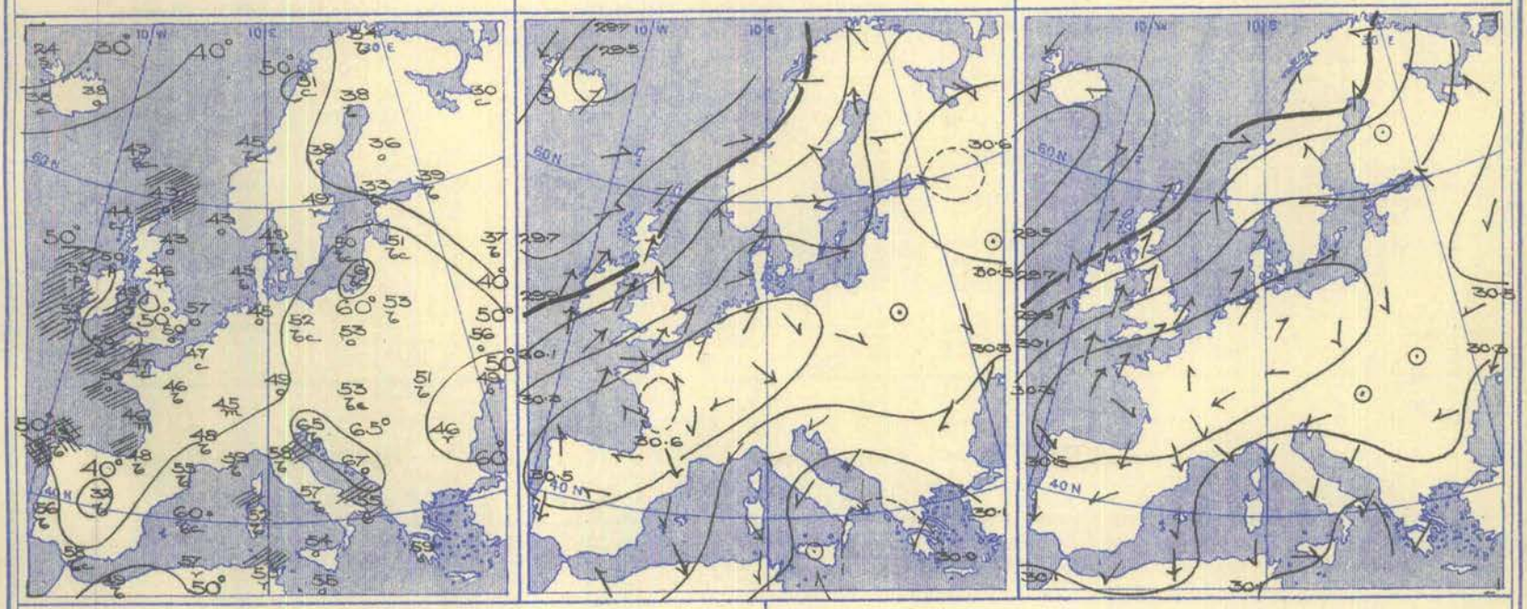
Wind in morning showing a cyclonic circulation in the north-west of our area, the South-Westerly current blowing a gale at Malin Head. Light anticyclonic airs general over the eastern half of the Continent, and light to moderate cyclonic breezes in the south and on the Mediterranean. Veering towards West in the north of these Islands by evening, but backing to South in the west of Ireland. A gale from the Southward setting in at Skudesnaes.

Barometer in morning above 30·4 in. in an elongated high pressure system over Russia and Finland, and above 30·3 in. in another over the Spanish Peninsula and the adjacent portion of the ocean. Below 29·3 in. in a depression off the north-west of Scotland, and relatively low over Italy and south-eastern Europe, as well as over Germany. Pressure increasing very briskly over these Islands during the greater portion of the day, but a fresh fall setting in on the south-west coast of Ireland. No great modification occurring in the general distribution.

Friday, 21st April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in many parts of England and Ireland and also on the north-west coast of Africa and at Bucharest and Stockholm. Fair to fine in most other regions. Rain, generally slight, experienced later at nearly all stations in the west and north of these Islands and also in Scandinavia and on some shores of the Mediterranean.

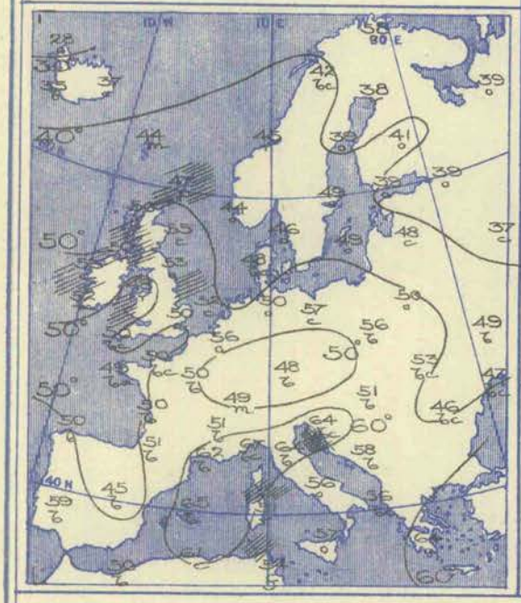
Temperature changed rather irregularly. Morning readings ranging from 65° at Trieste, 67° at Lesina and 61° in east Prussia to below 45° at most stations in Scotland and Scandinavia, and to 30° at Archangel and Madrid. Maxima during day 63° at Dublin and about 60° in several parts of Great Britain, northern France, the Netherlands, and Germany. Above 70° in Austria-Hungary, Italy, the south of France, and also in some Spanish localities, but only 61° at Algiers.

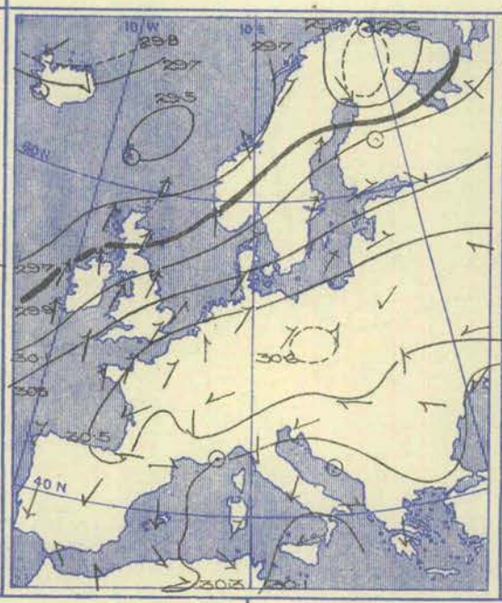
Wind in morning light to fresh or strong from the Southward over these Islands and most of Scandinavia, and light to high from the Northward in Iceland. A high wind from the North prevailing at Brindisi and moderate breezes from that quarter over a large portion of the Mediterranean and Italy. No change of importance occurring during day.

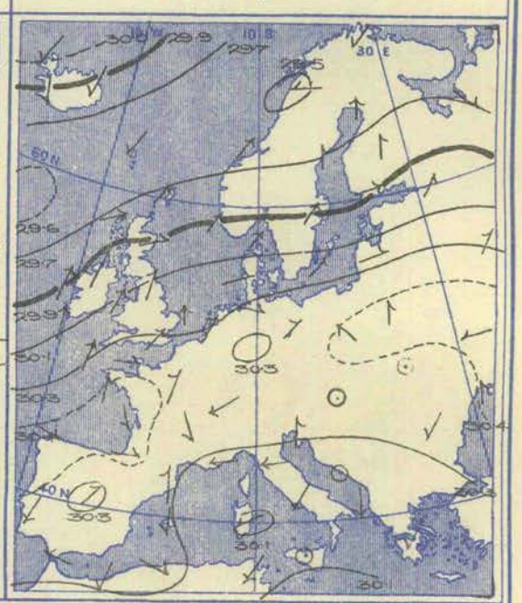
Barometer in morning above 30·6 in. in central France and also in the north of Russia; below 30·0 in. in the south-east of Europe, and below 29·5 in. in a depression centred over or near the east of Iceland. Pressure increasing slowly during day over the United Kingdom and the south-eastern countries, falling somewhat in France, and decidedly in the extreme north of Europe. Icelandic depression apparently travelling east-north-eastward.

Saturday, 22nd April, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to fine over the major portion of our area, but showery at several stations in the west and north of these Islands, dull, with some rain, in Scandinavia, and also at Cagliari. Rain experienced later in nearly all parts of these Islands, but in small amounts. Considerable quantities falling in Norway and also in Tunis, at Palermo, and Malta.

Temperature risen in most regions, briskly in Scotland. Morning readings ranging from 68° at Barcelona and 60° or higher at some other stations in the south to below 50° over a wide area in the north-east of the Continent, and to below 40° in places. Thermometer rising to above 60° in various parts of these Islands, and above 70° over a large area in France and the central countries, as well as in the north of Italy and the Spanish Peninsula. Maxima only 60° and 61° at Malta and Athens.

Wind in morning mainly South-Westerly over the United Kingdom and the northern half of the Continent; moderate or light in force generally, but fresh or strong on our western coasts. A light to strong Northerly wind prevailing in Iceland, and a Northerly current rather strong locally, over Italy and its neighbourhood. Increasing to a gale later in the south of Scandinavia, but little change as a whole.

Barometer in morning 30·3 in. and above over a very large area extending from the Azores to central Russia; below 29·5 in. in a depression off the north of Scotland, nearly as low in the extreme north of Scandinavia, and relatively low in the far south of our area. No decided modification occurring later in the general distribution. Another depression beginning to affect the barometer on the west coast of Ireland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
1	1911. April 18th, 2.40 p.m. to 3.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	285° 70% 160°, 10	284° 70% 160°, 17	282·5° 70% 160°, 21					Metres. 500	Strong gusty wind. Clear.
2	April 21st, 9.45 a.m. to 10.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	283° 85% 200°, 10	282°, 5 90% 200°, ?	279·5° 100% 210°, ?					500	Clouds at 350 m. Overcast, very gusty.
3	April 22nd, 9.50 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 60% 190°, 9	288° 60% 200°, 12	284° 70% 210°, 15					281·5° 50% 250°, 25 950	Lowest temp. 280·5 at 800 m. Change of direction, with great increase of strength of wind at 850 m. Cirrus.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	1	1	1
Area of Surface (sq. metres) ..	6	4	4
Capacity of Balloon (cub. metres)	—	—	—
Length of Wire (metres)	506	850	900

South Kensington, London, S.W. *April 25th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 17. SEVENTEENTH WEEK, SUNDAY, APRIL 23RD, TO SATURDAY, APRIL 29TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was unsettled and showery throughout the Kingdom, and the sky seldom free from cloud. In several localities in the west and north rain fell every day. Thunder was heard at some English stations on the 26th and thunder or thunderstorms occurred in a few places on the 29th: on the latter date a heavy thunderstorm, accompanied by hail, was experienced at Donaghadee.

Temperature was above the average in all districts, but the excess was not large. The highest of the maxima were recorded at most stations on the 23rd or 24th, and ranged from 67° in the Midland Counties to 56° in Scotland W. The lowest of the minima, which occurred over the greater part of the Kingdom on the 29th, varied between 28° in Scotland E. (at Balmoral on the 28th), 32° in Scotland N., and 33° in the Midland Counties to 39° in England E. and S.E. and to 42° in the English Channel. On most nights the minima were high for the time of year. The lowest grass readings recorded were 23° at Crathes, 25° at Balmoral, 29° at Glasgow, 30° at Cockle Park (Morpeth), and 31° at Rauceby.

Mean Temperature of the Sea. The water was nearly 7° warmer than during the corresponding week of last year at Kirkwall, but on the coast generally the difference was slight. The means for the week ranged from 51° at Seafield, and about 49° at the other Irish stations and at Scilly, to 43° at Burnmouth, and to 41° at Cromarty.

Rainfall exceeded the average, the excess being moderate in the east of England and rather large elsewhere. The fall at Donaghadee on Saturday amounted to 1·12 in.

Bright Sunshine was less than the normal in all districts, the deficit being large in the north-west of Britain. The percentage of the possible duration ranged from 40 in the English Channel, 39 in England S.E. and 38 in England S.W., to 25 in Scotland N., 20 in England N.W. and 19 in Scotland W.

Barometer and Wind. Throughout the period the type of conditions was Southerly and South-Westerly to Westerly, the pressure being highest to the southward of these Islands and lowest in a series of depressions travelling in a general easterly direction from the Atlantic to Northern Europe. Some of these disturbances or their secondaries caused steep gradients over the United Kingdom, and the wind was mostly fresh to strong and squally, while several parts of the coasts—generally the west and south—experienced brief gales.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 124.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Deficient	Moderate	Moderate	Moderate	Unusual	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy	Heavy
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Very scanty	Scanty	Moderate	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 8 weeks from Mar. 5th, 1911.	Warmth ...	1 * 1	2 * 2	3 * 1	2 * 1	2 * 1	0 * 1	1 * 3	1 * 2	0 * 2	0 * 1	2 * 3	0 * 2
	Rainfall ...	3 * 4	3 * 3	2 * 5	2 * 2	2 * 3	3 * 2	2 * 5	2 * 4	4 * 4	2 * 5	3 * 3	3 * 2
	Sunshine ...	3 * 3	1 * 4	0 * 4	0 * 2	0 * 4	1 * 3	2 * 3	2 * 2	1 * 2	3 * 3	3 * 2	1 * 3

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

9595/450 Wy. & S., Ltd. 5—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
SEVENTEENTH WEEK—April 23rd to April 29th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	59	32	50·9	39·9	45·2	+ 0·5	31	− 2	6	− 6	6	+ 2	1·06	+0·41	26	− 7	25	− 7
Eastern																		
1. SCOTLAND, EAST	63	28	53·9	40·4	46·8	+ 1·7	40	+ 2	4	− 9	6	+ 2	0·77	+0·31	29	− 6	28	− 6
2. ENGLAND, N.E.	62	37	54·7	43·5	48·9	+ 3·0	48	+ 11	0	− 8	5	+ 1	0·59	+0·22	27	− 10	27	−10
3. ENGLAND, EAST	64	39	59·7	44·6	51·8	+ 4·6	69	+ 21	0	− 8	5	+ 1	0·59	+0·20	37	− 2	37	− 2
4. MIDLAND COUNTIES	67	33	57·4	43·3	50·0	+ 2·7	56	+ 7	0	−11	5	+ 1	0·65	+0·21	33	− 3	32	− 3
5. ENGLAND, S.E.	64	39	56·3	44·5	50·1	+ 1·7	57	+ 7	0	− 4	5	+ 1	0·89	+0·43	39	− 1	39	− 1
Western																		
6. SCOTLAND, WEST	56	34	51·9	42·0	46·7	+ 0·1	33	− 8	0	− 7	7	+ 3	1·79	+1·12	19	− 17	19	−17
7 ENGLAND, N.W.	61	38	52·9	43·8	48·1	+ 1·0	43	+ 1	0	− 5	6	+ 2	1·27	+0·77	20	− 17	20	−16
ENGLAND, S.W.	61	38	53·7	44·1	48·7	+ 0·6	47	0	0	− 3	5	+ 1	1·45	+0·83	38	− 2	38	− 2
IRELAND, NORTH	59	36	53·9	42·7	48·0	+ 1·0	42	0	0	− 5	6	+ 2	1·20	+0·62	28	− 7	27	− 7
10. IRELAND, SOUTH	61	35	56·0	44·3	49·9	+ 1·5	55	+ 6	0	− 3	6	+ 2	1·19	+0·52	30	− 8	30	− 7
11. ENGLISH CHANNEL	57	42	54·7	46·2	50·3	+ 0·4	58	+ 3	0	0	5	+ 1	1·08	+0·56	40	− 7	40	− 7
THE SEASON (Spring).—Aggregates, &c., for the Period of 8 Weeks, March 5th to April 29th, 1911.																		
0. SCOTLAND, NORTH	60	22	*	*	*	*	129	− 22	185	−12	31	− 6	5·88	−0·91	209	− 8	29	− 1
Eastern																		
1. SCOTLAND, EAST	65	17	*	*	*	*	146	− 49	189	−23	36	+ 5	3·33	−0·51	200	−36	28	− 5
2. ENGLAND, N.E.	63	26	*	*	*	*	163	− 36	145	−16	32	+ 3	2·52	−0·53	197	−60	28	− 8
3. ENGLAND, EAST	69	22	*	*	*	*	213	− 47	152	−16	29	+ 2	3·13	+0·29	233	−30	33	− 4
4. MIDLAND COUNTIES	68	22	*	*	*	*	200	− 69	165	−11	26	0	2·49	−0·71	194	−44	27	− 6
5. ENGLAND, S.E.	66	24	*	*	*	*	214	− 61	134	+17	27	+ 2	3·69	+0·57	243	−19	34	− 3
Western																		
6. SCOTLAND, WEST	60	20	*	*	*	*	182	− 20	156	+ 6	25	− 6	4·24	−1·50	217	−29	30	− 4
7. ENGLAND, N.W.	62	26	*	*	*	*	189	− 26	129	+ 1	26	− 3	3·25	−0·85	223	−11	31	− 2
8. ENGLAND, S.W.	66	22	*	*	*	*	206	− 60	124	+27	27	− 2	4·96	+0·35	251	−15	35	− 2
9. IRELAND, NORTH	63	22	*	*	*	*	199	− 32	134	+13	26	− 8	3·21	−1·45	239	+ 8	33	+ 1
10. IRELAND, SOUTH	68	23	*	*	*	*	260	− 25	124	+34	32	+ 1	4·55	−0·57	255	− 4	36	− 1
11. ENGLISH CHANNEL	63	28	*	*	*	*	272	− 41	54	+24	37	+ 6	4·75	+0·93	288	−28	41	− 4
THE YEAR.—Aggregates, &c., for the Period of 17 Weeks, January 1st to April 29th, 1911.																		
0. SCOTLAND, NORTH	60	14	*	*	*	*	218	+ 7	404	−123	77	− 6	18·29	+0·54	295	− 10	24	− 1
Eastern																		
1. SCOTLAND, EAST	65	11	*	*	*	*	231	− 32	473	−116	70	+ 4	7·66	−1·17	343	− 17	28	− 1
2. ENGLAND, N.E.	63	19	*	*	*	*	287	+ 8	366	− 96	60	− 2	5·03	−1·41	331	− 52	26	− 4
3. ENGLAND, EAST	69	16	*	*	*	*	325	− 25	405	−102	65	+ 4	6·39	+0·18	380	− 23	30	− 2
4. MIDLAND COUNTIES	68	14	*	*	*	*	322	− 51	409	−103	53	− 6	5·06	−2·32	323	− 34	25	− 3
5. ENGLAND, S.E.	66	16	*	*	*	*	317	− 76	361	− 15	56	− 1	6·81	−0·76	395	0	31	0
Western																		
6. SCOTLAND, WEST	60	18	*	*	*	*	305	+ 14	338	− 74	65	− 6	13·63	−0·96	327	− 25	26	− 2
7. ENGLAND, N.W.	62	17	*	*	*	*	300	− 9	313	− 66	58	− 7	8·54	−1·23	349	+ 2	28	0
8. ENGLAND, S.W.	66	13	*	*	*	*	319	− 98	297	+ 1	60	− 5	9·93	−1·68	393	− 9	31	− 1
9. IRELAND, NORTH	63	18	*	*	*	*	352	− 4	302	− 36	63	−13	8·61	−2·58	371	+ 22	30	+ 2
10. IRELAND, SOUTH	68	18	*	*	*	*	449	− 22	295	+ 40	69	0	9·49	−3·18	394	− 1	31	0
11. ENGLISH CHANNEL	63	28	*	*	*	*	460	− 72	135	+ 26	70	− 2	8·22	−1·51	446	− 38	35	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	49	26th	37	25th	46·6	39·6	42·9	—	16	7	7	1·01	—	7·5	—	7	—	Baltasound.
	a Sumburgh Head ..	51	23rd	32	24th	47·6	36·3	41·7	− 0·7	16	22	5	0·87	+ 0·40	19·9	−16·8	19	−16	Deerness.
	a Stornoway	54	23rd	36	28th	51·0	41·3	45·9	+ 1·8	30	2	7	0·77	+ 0·13	32·6	− 6·8	31	− 7	Stornoway.
	a Castlebay, Barra Isd.	51	23, 27, 28, 29	40	29th	50·6	43·3	46·8	− 0·2	34	0	6	0·65	—	43·9	—	42	—	Castlebay.
	a Wick	56	23rd, 25th	?32	28th	53·1	40·0	46·2	+ 2·0	38	6	6	0·40	− 0·04	*	*	*	*	
	p Strathpeffer.. ..	56	23rd	37	27th, 29th	51·1	40·6	45·6	+ 0·9	31	4	5	0·63	+ 0·20	31·8	− 3·2	31	− 3	Strathpeffer.
	p Glencarron .. S	53	27th	35	28th	49·6	40·0	44·6	+ 0·9	27	6	7	2·34	+ 1·19	*	*	*	*	
	p Fort Augustus S	55	27th	32	28th	51·8	39·9	45·6	+ 0·7	34	6	6	0·69	+ 0·18	19·8	− 8·4	19	− 8	Fort Augustus.
	p Fort William S	59	27th	34	29th	52·3	41·4	46·6	+ 0·6	35	2	5	1·73	+ 0·85	*	*	*	*	
1. SCOTLAND, E. .. — b, Main-land.	p Gordon Castle S	63	25th	34	28th	55·4	41·3	48·0	+ 2·9	45	2	6	0·78	+ 0·41	34·0	—	33	—	Gordon Castle.
	a Nairn	62	25th	30	28th	54·4	40·1	46·9	+ 1·9	42	5	5	0·60	+ 0·25	37·5	—	36	—	Nairn.
	a Aberdeen	62	23rd	34	28th	56·0	41·7	48·5	+ 3·7	47	1	6	0·76	+ 0·30	32·8	− 5·4	32	− 5	Aberdeen.
	p Crathes .. .. S	58	27th	28	28th	52·4	35·9	43·8	+ 2·0	38	17	6	0·78	+ 0·26	21·8	—	21	—	Crathes S.
	a Balmoral	58	23rd	35	29th	57·1	41·1	48·7	− 2·6	51	3	5	0·35	− 0·15	28·0	—	27	—	Balruddery.
	p Crieff .. .. S	57	23rd, 25th	38	29th	54·0	43·9	48·7	+ 2·4	47	0	6	0·37	+ 0·06	*	*	*	*	
	a Leith	53	23rd	34	29th	50·2	39·0	44·3	+ 1·0	29	8	6	1·41	—	17·7	—	17	—	West Linton.
	p West Linton.. S	56	23rd	36	29th	51·9	40·3	45·8	+ 1·8	34	5	5	1·10	+ 0·60	25·5	− 9·5	25	− 9	Marchmont.
	p Marchmont .. S																		
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	61	23rd	37	29th	54·7	42·6	48·4	+ 3·8	45	0	5	0·86	+ 0·43	28·3	—	28	—	Cockle Park.
	a Shields	61	23rd	39	29th	54·4	42·3	48·1	+ 2·9	43	0	5	0·80	+ 0·46	22·8	− 4·6	22	− 5	Newcastle.
	p Durham	57	23rd	38	29th	53·2	42·8	47·8	+ 3·0	41	0	4	0·50	+ 0·14	24·9	− 8·6	24	− 8	Durham.
	p Rounton .. M	57	23rd	40	27th, 29th	53·2	43·6	48·2	+ 3·5	43	0	5	0·46	+ 0·12	*	*	*	*	
	p Scarborough.. M	60	23rd	42	27th, 29th	54·9	44·4	49·4	+ 3·8	52	0	7	0·45	+ 0·03	27·6	—	27	—	Scarborough.
	p York	60	23rd	43	26th, 27th	55·3	45·6	50·2	+ 3·0	57	0	7	0·61	+ 0·20	15·3	−18·8	15	−18	York.
	a Spurn Head	59	23rd	41	29th	53·4	44·9	49·3	+ 2·7	49	0	6	0·48	+ 0·21	*	*	*	*	
	a Lincoln .. .. b, South.	62	23rd	39	29th	56·6	43·4	49·7	+ 2·3	54	0	6	0·68	+ 0·32	34·6	—	34	—	Skegness.
	a Fulbeck	60	23rd	38	29th	56·9	42·6	49·1	+ 1·8	50	0	4	0·43	+ 0·06	31·3	—	31	—	Rauceby.
															38·1	—	38	—	Lowestoft.
															32·4	—	32	—	Cromer.
3. ENGLAND, E. — a, North.	p Cromer	63	23rd	40	27th, 29th	59·1	43·7	51·0	+ 5·5	63	0	5	0·60	—	34·0	− 5·0	34	− 5	Hillington.
	p Hillington .. M	63	23rd, 25th	39	29th	59·6	43·9	51·4	+ 4·3	66	0	6	1·01	+ 0·60	33·8	—	34	—	Yarmouth.
	a Yarmouth	62	23, 24, 25th	42	27th, 29th	59·6	44·7	51·8	+ 5·9	69	0	5	0·72	+ 0·37	*	*	*	*	
	a Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	35·1	− 5·6	35	− 6	Geldeston.
	p Geldeston	64	24th, 25th	42	29th	60·5	44·2	52·0	+ 5·0	70	0	4	0·43	+ 0·06	42·5	+ 2·5	43	+ 3	Cambridge.
	p Cambridge	64	24th	40	29th	60·1	44·4	51·9	+ 3·9	69	0	5	0·60	+ 0·24	44·4	—	44	—	Felixstowe.
	a Felixstowe	63	23rd, 24th	43	27th, 29th	59·3	45·7	52·2	+ 5·2	71	0	5	0·47	—	39·1	—	39	—	Clacton.
	a Clacton-on-Sea .. b, South.	64	24th	43	27th, 29th	59·7	45·3	52·2	+ 5·4	71	0	4	0·31	—	42·8	+ 5·0	43	+ 5	Rothamsted.
	a Rothamsted ..	63	24th	40	29th	58·9	44·1	51·1	+ 4·1	64	0	5	0·55	+ 0·17	41·8	—	42	—	Southend.
	a Shoeburyness ..	63	24th	43	27th, 29th	58·9	45·4	51·8	+ 3·0	69	0	5	0·49	+ 0·23	38·6	—	39	—	Tottenham.
	p Tottenham	64	24th	43	27th, 29th	59·7	46·4	52·7	+ 4·4	75	0	4	0·50	—					
4. MIDLAND COUNTIES. — a, East.	a Harrogate	59	23rd	39	27th	53·8	42·9	48·1	+ 2·7	43	0	6	0·52	+ 0·08	27·5	—	27	—	Harrogate.
	a Bawtry	63	23rd	40	29th	57·0	44·7	50·6	+ 3·3	60	0	5	0·44	+ 0·09	24·4	− 8·5	24	− 8	Worksop.
	p Buxton .. M	57	23rd	38	27th, 29th	51·5	41·6	46·3	+ 2·5	32	1	6	2·60	+ 1·93	27·9	—	28	—	Buxton.
	a Nottingham ..	61	23rd, 27th	39	29th	57·3	44·0	50·3	+ 3·1	58	0	5	0·61	+ 0·24	28·6	—	28	—	Nottingham.
	p Birmingham, Edgbsn	63	24th	40	24, 27, 29th	57·1	42·9	49·7	+ 2·5	54	0	6	0·76	+ 0·32	33·6	—	34	—	Birmingham.
	a Raunds .. M	65	24th	39	29th	60·5	43·1	51·4	+ 4·2	66	0	5	0·59	—	*	*	*	*	
	a Oxford	62	24th	42	24, 27, 29th	58.4	45·1	51·4	+ 3·2	66	0	5	0·62	+ 0·26	38·5	+ 0·5	39	+ 1	Oxford.
	a Cheadle .. M b, West.	57	27th	33	24th	53·1	38·3	45·3	− 0·6	39	10	5	1·17	+ 0·71	32·3	—	32	—	Sheffield.
	p Shrewsbury	60	23rd	39	29th	57·0	43·4	49·9	+ 1·7	55	0	5	0·28	—	*	*	*	*	
	a Hereford .. M	64	24th	41	24, 27, 29th	57·6	44·3	50·6	+ 2·4	60	0	6	0·39	− 0·03	*	*	*	*	
	a Cirencester	67	23rd	36	24th	62·5	42·1	51·8	+ 5·1	69	0	4	0·71	+ 0·28	36·3	− 3·5	36	− 4	Cirencester.
	a Bath	59	23rd	42	29th	56·7	46·0	51·1	+ 2·6	64	0	5	1·09	+ 0·64	39·3	—	39	—	Bath.
															40·7	—	41	—	Ramsgate.
5. ENGLAND, S.E...	p Kew	62	24th	43	27th, 29th	58·5	46·0	52·0	+ 3·6	70	0	5	0·67	+ 0·33	36·1	− 1·9	36	− 2	Kew.
	a Marlborough ..	59	24th	40	24th	55·7	43·7	49·4	+ 2·8	52	0	5	0·86	+ 0·42	36·5	+ 0·7	37	+ 1	Marlborough.
	a Margate	62	24th	41	29th	58·4	44·6	51·2	+ 3·2	64	0	5	0·47	+ 0·16	40·7	+ 2·0	41	+ 2	Margate.
	a Wisley, Surrey ..	64	24th	42	27th, 29th	58·4	45·5	51·6	+ 2·6	67	0	5	0·74	—	35·8	—	36	—	Wisley.
	a Swarraton .. M	61	24th	40	29th	56·4	44·3	50·1	+ 3·2	57	0	5	1·59	+ 1·15	40·8	—	41	—	Worthing.
	a Tunbridge Wells M	63	24th	39	24th	57·0	42·2	49·2	+ 1·8	50	0	5	0·97	+ 0·58	42·3	+ 1·8	42	+ 2	Tunbridge Wells.
	a Dungeness	60	26th	43	24th, 27th	53·4	44·3	48·6	+ 1·1	46	0	5	0·56	+ 0·26	38·0	—	38	—	Littlestone.
	p Hastings	57	26th	42	25th, 29th	53·4	43·8	48·4	+ 0·3	45	0	4	0·61	+ 0·24	39·0	− 4·7	39	− 5	Hastings.
	p Southampton ..	63	24th	42	25th, 29th	57·5	45·3	51·1	+ 1·2	64	0	5	1·43	+ 0·99	36·9	− 5·2	37	− 5	Southampton.
	a Ventnor	57	24th, 26th	43	29th	54·1	45·1	49·4	− 0·3	52	0	5	0·96	+ 0·59	37·6	− 7·4	38	− 8	Ventnor.
															43·6	+ 0·2	44	0	Eastbourne.
LONDON .. —	a Westminster ..	65	24th	43	27th	60·1	46·9	53·2	+ 4·4	78	0	5	0·56	+ 0·23	35·3	+ 5·3	35	+ 5	Westminster.
	a Greenwich	66	24th	42	27th, 29th	61·0	45·9	53·1	+ 4·4	78	0	5	0·63	+ 0·32	35·7	− 1·1	36	− 1	Greenwich.
6. a, SCOTLAND. W. ..	a Poltalloch .. S	54	23rd, 28th	34	29th	51·7	41·0	46·1	− 0·2	33	3	7	1·51	+ 0·92	*	*	*	*	
	p Glasgow	54	29th	39	28th, 29th	51·7	43·0	47·1	+ 0·7	36	0	7	1·46	+ 0·96	14·5	−17·6	14	−17	Glasgow.
	p Rothesay .. S	56	29th	37	28th, 29th	53·1	41·6	47·1	+ 0·5	37	1	7	1·91	+ 1·26	*	*	*	*	
	a Kilmarnock	54	23rd, 29th	35	28th	52·1	41·3	46·4	+ 0·3	34	2	7	1·48	—	11·1	—	11	—	Kilmarnock.
	a Colmonell .. S	55	23rd	40	28th	52·7	43·0	47·6	+ 1·1	39	0	6	1·71	+ 1·16	*	*	*	*	
	p Dumfries .. S	55	23rd	38	29th	51·9	41·6	46·5	− 0·2	33	1	7	1·83	+ 1·31	17·1	—	17	—	Dumfries.
	p Cally, Gatehouse S	54	28th	39	28th	50·4	42·8	46·4	+ 0·2	31	0	7	2·61	+ 1·92	*	*	*	*	
6. b, ISLE OF MAN ..	p Douglas	55	23rd	39	29th	50·8	42·2	46·3	+ 0·1	30	0	6	1·97	+ 1·38	23·6	− 21·2	23	−21	Douglas.
															21·5	—	21	—	Hoylake.
															9·2	—	9	—	Aspatria.
7. a, ENGLAND, N.W...	p Aspatria	54	23rd, 28th	39	28th	49·9	42·1	45·8	+ 0·3	27	0	7	2·19	+ 1·69	13·0	−24·8	13	−24	Newton Rigg.
	p Newton Rigg ..	54	23rd	38	29th	50·7	41·6	45·9	+ 1·1	29	1	7	1·13	+ 0·61	13·4	−24·1	13	−24	Stonyhurst.
	p Stonyhurst	61	25th	40	27th	52·8	43·5	47·9	+ 1·9	41	0	7	2·20	+ 1·57	17·6	−21·5	17	−21	Blackpool.
	p Blackpool .. M	54	23, 27, 28th	41	27th, 29th	51·6	44·3	47·8	+ 1·1	41	0	6	1·29	+ 0·84	14·3	−18·0	14	−18	Prestwich.
	p M'nch'ster, Prestwich	60	23rd	40	29th	53·9	43·3	48·4	+ 2·1	45	0	7	1·89	+ 1·38	24·8	—	25	—	Liverpool.
	a Liverpool (Bidston)	58	23rd, 25th	41	27th, 28th	54·6	44·0	49·1	+ 1·9	50	0	7	1·16	+ 0·77	17·2	−24·2	17	−24	Southport.
	a Hawarden Bridge ..	58	27th, 28th	43	27th	55·9	45·7	50·6	+ 2·1	60	0	5	0·13	− 0·20	34·4	—	34	—	Rhyl.
7. b, NORTH WALES ..	p Llandudno .. M	57	23rd, 25th	42	27th	54·8	45·2	49·8	+ 2·0	55	0	6	0·67	− 0·26	30·7	− 8·6	30	− 9	Llandudno.
	a Holyhead	54	27th, 28th	42	26th	52·0	44·3	48·0	+ 0·7	42	0	5	0·80	+ 0·33	33·7	—	34	—	Aberdovey.
	p Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws-y-Coed.
															34·8	—	35	—	Aberystwyth.
															28·8	—	29	—	Llangammarch Wells.
8. a, SOUTH WALES ..	a Llangammarch Wells	57	24th	38	29th	53·3	41·9	47·3	+ 1·4	38	0	7	1·63	—	43·2	− 0·6	43	− 1	Pembroke.
	a Pembroke	51	23, 24, 28th	43	27th, 29th	50·1	44·3	47·1	− 0·2	36	0	6	0·68	+ 0·23	47·1	—	47	—	Cardiff.
	p Cardiff	56	23rd	40	24th	54·3	43·5	48·6	− 0·7	46	0	5	1·40	+ 0·84	43·5	− 1·4	44	− 1	Tenby.
8. b, ENGLAND, S.W. ..	a Clifton	58	28th	42	29th	55·6	45·3	50·2	+ 1·1	57	0	5	1·08	+ 0·57	40·4	—	40	—	Clifton.
	a Shaftesbury .. M	59	24th	38	29th	54·4	42·1	48·0	+ 1·1	42	0	5	1·68	+ 1·17	*	*	*	*	
	a Arlington	55	28th	38	24th	52·3	42·1	47·0	+ 0·5	35	0	4	2·37	+ 1·70	40·7	− 2·1	41	− 2	Newquay.
	a Cullompton .. M	61	24th	40	29th	57·4	44·6	50·7	+ 2·4	61	0	6	1·52	+ 1·01	34·3	− 4·2	35	− 4	Cullompton.
	a Portland Bill ..	53	26th	43	29th	50·4	45·3	47·7	− 0·7	40	0	5	0·78	—	45·3	—	46	—	Weymouth.
	p Plymouth	59	26th	43	29th	54·8	45·7	50·0	+ 0·6	56	0	5	1·35	+ 0·85	42·0	− 0·5	42	− 1	Plymouth.
	p Falmouth	55	23, 24, 25, 28	43	29th	54·6	46·0	50·1	+ 1·3	57	0	5	2·01	+ 1·44	39·4	− 6·2	40	− 6	Falmouth.
															—	—	—	—	Salcombe.
															48·5	+ 4·3	49	+ 4	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	52	23, 24, 25, 28	38	26th, 27th	50·4	42·1	46·1	− 0·2	29	0	6	1·12	+ 0·67	*	*	*	*	
	a Blacksod Point ..	53	23, 25, 27th	38	29th	52·4	44·3	48·2	+ 0·4	43	0	6	0·91	+ 0·26	*	*	*	*	
	p Markree Castle ..	59	25th	38	29th	54·8	41·7	47·9	+ 1·3	43	1	5	1·38	+ 0·80	27·7	− 8·9	27	− 9	Markree Castle.
	a Birr Castle	58	24th	36	29th	55·6	42·6	48·8	+ 1·5	48	0	6	0·66	+ 0·16	30·3	− 7·3	30	− 7	Birr Castle.
9. IRELAND, N. — b, East.	p Armagh	59	23rd	39	26th, 29th	55·5	41·8	48·3	+ 1·6	45	1	7	1·18	+ 0·67	27·7	− 8·3	27	− 8	Armagh.
	a Donaghadee	57	27th	41	26th, 27th	54·6	43·4	48·7	+ 2·1	47	0	6	1·93	+ 1·46	*	*	*	*	
10. IRELAND, S. — a, East.	p Dublin, City.. ..	61	24th	41	29th	58·5	44·9	51·4	+ 2·6	66	0	5	0·33	− 0·10	43·2	+ 2·5	43	+ 3	Phœnix Park.
	a Kilkenny	61	24th	35	29th	57·4	43·0	49·9	+ 2·2	55	0	6	1·36	+ 0·86	*	*	*	*	
	a Waterford	61	23rd	37	29th	56·0	43·9	49·7	+ 2·0	54	0	6	1·25	+ 0·72	*	*	*	*	
	a Birr Castle	58	24th	36	29th	55·6	42·6	48·8	+ 1·5	48	0	6	0·66	+ 0·16	30·3	− 7·3	30	− 7	Birr Castle.
10. IRELAND, S. — b, West.	a Foynes	59	24th, 25th	39	29th	55·5	44·7	49·8	+ 1·4	55	0	6	0·86	+ 0·32	*	*	*	*	
	a Cahir .. .. M	59	23, 24, 28th	35	29th	57·3	43·2	49·9	+ 2·6	55	0	6	1·34	—	*	*	*	*	
	a Killarney	60	23rd	40	29th	56·2	45·4	50·5	+ 2·2	60	0	6	1·91	+ 1·16	*	*	*	*	
	a Valencia	54	23, 24, 27th	42	29th	53·4	46·0	49·5	+ 0·5	53	0	6	1·88	+ 1·04	21·8	−17·9	22	−18	Valencia.
	a Roche's Point ..	57	23rd, 25th	41	29th	54·1	45·0	49·3	+ 0·6	51	0	7	1·11	+ 0·49	24·9	—	25	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	56	23rd	42	29th	54·1	45·3	49·5	0·0	53	0	6	1·08	+ 0·65	35·5	− 9·2	36	− 9	Scilly.
	a Jersey, St. Aubins ..	57	23rd	44	25th	55·3	47·0	51·0	+ 0·9	63	0	5	0·87	+ 0·39	40·6	− 7·0	41	− 7	St. Helliers.
	a Guernsey	56	28th	44	25th, 29th	54·8	46·4	50·4	+ 0·6	59	0	4	1·28	+ 0·75	43·2	− 6·4	44	− 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 39·7 hrs.* (− *3·4 hrs.*), *40* % (− *3* %); *Bournemouth, 43·2 hrs., 44* %; *Bognor,* *hrs.,* %.

For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	44·2	—
0. — —				
0. — —				
1. Aberdeen	—	—	—	43.7
1. Crathes	3	23	47·0	43·8
1. Balmoral	3	25	—	—
1. West Linton	—	—	—	—
1. Marchmont	—	—	46·0	—
2. Cockle Park	1	30	46·8	44·4
2. Durham	0	36	—	—
2. York	—	—	47·4	45·1
2. Hull	0	38	48·6	44·6
2. Lincoln	—	—	47·9	44·7
2. Rauceby	0	31	50·4	45·8
3. Norwich	—	—	—	—
3. Yarmouth	—	—	51·6	48·0
3. Lowestoft	0	38	50·7	46·8
3. Cambridge	0	33	50·9	47·4
3. Clacton-on-Sea	0	35	50·1	47·8
3. Southend	0	36	50·3	—
3. Tottenham	0	38	—	47·2
4. Harrogate	0	36	45·9	44·6
4. Huddersfield	0	38	48·0	43·3
4. Buxton	0	32	47·2	43·2
4. Sheffield	0	34	47·5	43·7
4. Nottingham	0	35	49·0	44·6
4. Birmingham	0	35	46 4	44·6
4. Oxford	0	—	—	—
4. Hereford	0	33	—	—
4. Cirencester	0	33	47·2	45·3
4. Bath	—	—	50·5	47·5
5. Margate	0	39	49·3	46·1
5. Greenwich	0	37	—	—
5. Westminster	0	39	—	—
5. Kew	0	32	50·0	46·5
5. Canterbury	0	39	50·4	47·2
5. Tunbridge Wells	0	32	49·6	—
5. Wisley	0	37	50·0	46·7
5. Worthing	0	35	50·7	47·3
5. Portsmouth	0	36	51·7	48·8
6. Glasgow	2	29	—	—
6. Rothesay	—	—	—	45·3
6. Colmonell	0	36	—	—
6. Dumfries	0	35	48·0	45·4
6. Douglas	0	38	—	—
7. Aspatria	0	32	47·1	44·8
7. Newton Rigg	0	36	46·2	43·6
7. Burnley	0	38	47·0	43·5
7. Southport	0	39	50·4	47·5
7. Manchester City	0	41	48·4	46·0
7. Bettws-y-Coed	—	—	—	—
8. Llangammarch Wells	0	32	47·0	44·7
8. Cardiff	0	32	49·4	45·8
8. Clifton	0	38	—	—
8. Plymouth	0	37	51·2	—
9. Armagh	0	36	49·4	46·6
9. Markree	0	33	50·2	46·7
10. Dublin, Trin. Coll.	0	33	50·6	47·7
11. Guernsey, Brooklyn	0	32	50·0	47·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	44	44·4
	Kirkwall	51	45	48·3
	Wick	46	45	45·3
SCOTLAND, E.	Cromarty	42	39	40·7
	Pennan Bay	45	43	43·8
	Aberdeen, Cove Bay	45	44	44·7
ENGLAND, N.E.	Burnmouth, Berwick	43	42	42·6
	Scarborough	47	44	45·7
ENGLAND, E.	Shipwash Lightship	47	45	46·5
	Margate‡	49	47	48·1
ENGLAND, S.E.	Eastbourne‡	48	44	46·0
SCOTLAND, W.	Lamlash	48	46	47·0
	Ballantrae	45	43	44·2
ENGLAND, N.W.	Port Erin	47	46	46·0
ENGLAND, S.W.	Newquay	48	47	47·4
	Scilly	50	49	49·4
	Plymouth‡	48	47	47·4
	Salcombe	48	47	47·3
IRELAND, N.W.	Sheephaven	50	48	49·0
	Teelin	51	49	49·5
IRELAND, S.W.	Cleggan	50	46	49·3
	Seafield	52	50	50·8
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

Registering Balloon Ascents.

Height kms.	1 Manchester, March 1st, 1911. 5.50 p.m. Pressure Mgd.	1 Temperature. A°	2 Manchester. March 2nd, 1911. 5.50 p.m. Pressure. Mgd.	2 Temperature. A°	3 Manchester. March 3rd, 1911. 7.0 a.m. Pressure. Mgd.	3 Temperature. A°	4 Pyrton Hill, April 5th, 1911. 6.2 p.m. Pressure. Mgd.	4 Temperature. A°	5 Pyrton Hill, April 6th, 1911. 6.57 a.m. Pressure. Mgd.	5 Temperature. A°	Height kms.
Ground	1·016	281	1·022	284	1·023	282	1·003	271	1·004	271	Ground
0·5	·959	276	0·965	—			·972	267	·961	267	0·5
1·0	·899	271·5	·908	276			·901	262	·901	263	1·0
1·5	·842	269	·856	273·5			·844	257·5	·844	260	1·5
2·0	·791	267	·803	271			·791	253	·794	258	2·0
2·5	·744	265	·751	269			·738	249	·742	256	2·5
3·0	·699	262·5	·703	266·5			·689	244	·694	255·5	3·0
3·5	·655	260	·659	263	·666	271 266·5	·643	242·5	·649	254	3·5
4·0	·611	256·5	·617	260·5	·624	266·5 263·5	·599	240	·608	251	4·0
4·5	·571	253	·576	257	·584	261	·558	237	·568	248	4·5
5·0	·534	249·5	·539	253·5	·545	257	·520	234·5	·531	245	5·0
5·5	·498	245·5	·505	250	·509	253	·484	233	·496	242	5·5
6·0	·464	241	·473	247	·476	249	·449	230	·461	238·5	6·0
6·5	·432	237	·441	243·5	·446	246	·418	227	·427	235	6·5
7·0	·403	233	·409	239·5	·415	243·5	·390	225	·400	232	7·0
7·5	·374	229·5	·380	236·5	·386	240	·361	224	·371	230	7·5
8·0	·345	226·5	·354	234	·359	236·5	·336	223	·344	227·5	8·0
8·5	·319	223	·329	230·5	·338	233	·311	222·5	·320	226	8·5
9·0	·296	221 220	·305	227·5	·310	229·5	·289	222	·297	224·5	9·0
9·5	·276	219 217	·283	223·5	·289	226 224	·268	221	·276	224	9·5
10·0	·256	218 214·5	·261	218·5	·268	223 219	·249	220·5	·256	223·5	10·0
11·0	·216	220·5*	·223	211·5	·228	216* 217*	·214	220·5	·221	224	11·0
12·0	·184	222·5 224·5	·188	210·5	·196	214 217	·184	221·0	·191	224	12·0
13·0	·157	222	·159	219	·169	222·5	·158	220·0	·164	223·5	13·0
13·8			·141	220							13·8
14·0	·135	221·5			·145	225 222·5	·133	219·5	·141	223	14·0
15·0	·115	220·5			·123	225			·121	222·5	15·0
16·0	·098	220									16·0
17·0	·084	219·5									17·0
18·0	·072	218·5									18·0
19·0	·061	218									19·0

NOTES.

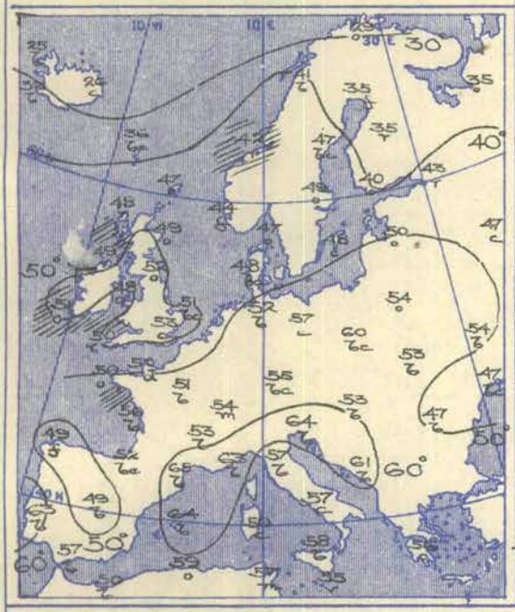
	1	2	3	4	5	
At Min. Pressure	·061 | 218°	·141 | 220°	·123 | 225°	·133 | 219·5	·121 | 222·5	At Min. Pressure.
Max. Height (km.)	19·1	13·8	15·0	14·0	15 km.	Max. Height. (km.)
Min. Temp.	214°·5 at 10·1 km.	209° at 11·7 km.	214° at 12·0 k.m.	213·5° at 14 km.	222·5° at 15 km.	Min. Temp.
Height and Temp. at which Stratosphere was reached	10·2 km., 214·5° or 218·5°	11·7 km. 209	12 km., 214° or 217°	10·3 km. 220°.	9·7 km. 223°.	Height and Temp. at which Stratosphere was reached.
Place of fall	Little Downham, Nr. Littleport, Cambridge.	Kingswalden, Herts.	Gt. Chesterfield, Essex.	Near Sherbourne.	Near Bath.	Place of fall.
Distance (km.)	201	220	225	120	96	Distance (km.)
Direction	124°	142°	131°	235°	254°	Direction.
Gradient, °C per 100 m.	0·69	0·64	0·56	0·50	0·48°	Gradient, °C per 100 m.
Ground to	7 km.	7 km.	7 km.	10 km.	9·5 km.	To ground.

1. Trace crosses at 11 km. 2. Readings below 3 km. not accurate owing to blurred trace. 3. Trace crosses at 10·8 kms. and again at 12·8 kms. Balloon seen falling 11.15 a.m. March 3rd. Returned with pen on sheet; trace illegible below 3 kms. 4. Good trace. Very unusual temperature at 3 kms. Strong N.E. wind. Balloon lost in clouds at about 800 m. 5. Good trace. Slight inversion at 1·9 km. Strong N.E. wind. Balloon lost quickly in clouds.

Sunday, 23rd April, 1911.

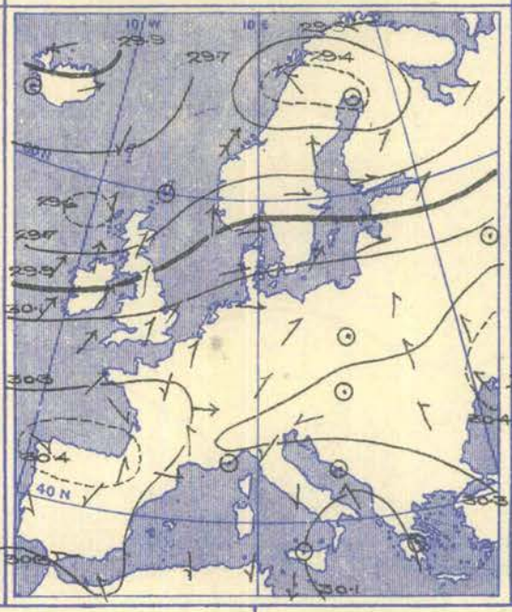
Temperature and Weather.

7 a.m.

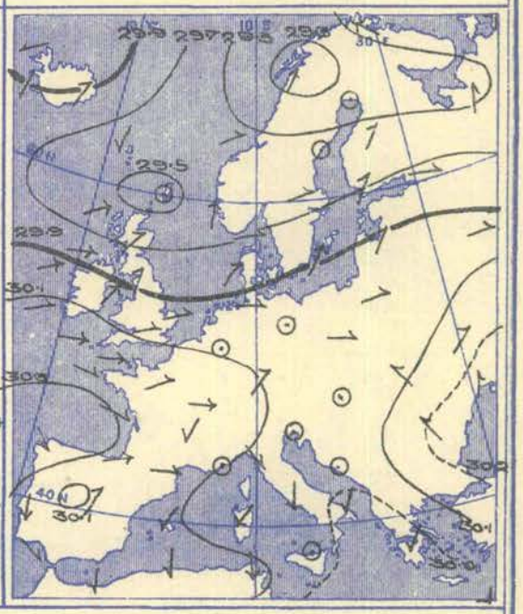


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at several stations in the south-west, west, and north of the United Kingdom; fair in the east of England and over the greater portion of the Continent, but rain falling at some widely separated places in the north. A thunderstorm prevailing at Cape de Garde and rain at Malta. Remaining dry in the east and south of England, but slight rain experienced in most other parts of these Islands, and also in various places scattered over the Continent.

Temperature showing no decided change. Readings in morning ranging from 65° at Barcelona, 63° on the Riviera and at Lisbon, and about 60° at some other southern stations and at a few in Germany to a little above 50° in many parts of this country, France, and the Netherlands, and to below 32° in the extreme north of Norway. Rising to 63° at Lowestoft later and to about 60° in several parts of these Islands, and to 70° or higher over a large area in central and southern Europe, but only touching 61° at Athens and 59° at Malta.

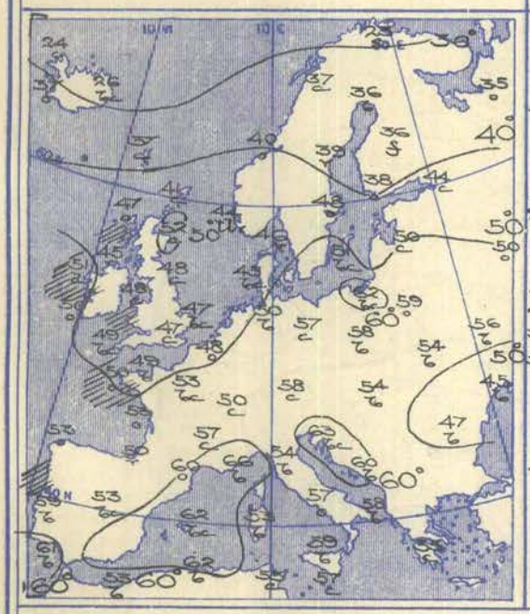
Wind in morning light to fresh or strong from the Southward or South-Westward over the United Kingdom, and blowing a strong gale from South-West at Christiansund. Light, variable airs general in the central countries and Russia, and light to moderate Northerly breezes over the Mediterranean and Italy. A strong breeze from North prevailing at Malta. Veering to the Westward later in day in this country, and increasing to a strong gale at Malin Head during night. No change of importance on the Continent; gale subsiding at Christiansund.

Barometer in morning above 30·4 in. over the north of Spain and also in the south of Russia; below 29·6 in. in a depression to the west of the Hebrides, below 29·4 in. in a larger system in the north of Scandinavia, and relatively low in the south of Italy and its vicinity. Scottish disturbance moving in an easterly direction during day and pressure increasing somewhat in its rear, but mercury falling over our area generally.

Monday, 24th April, 1911.

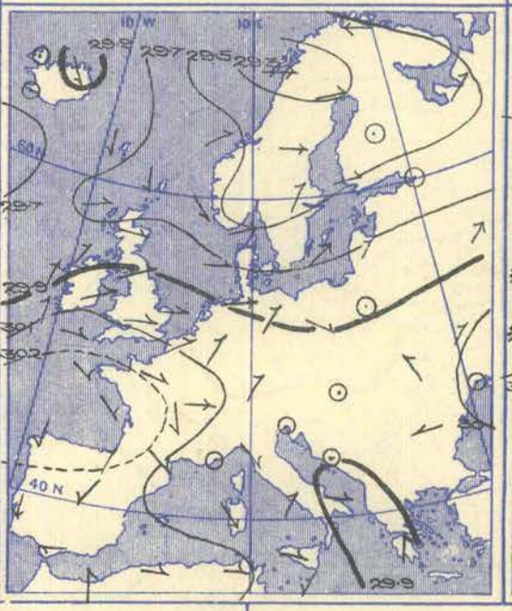
Temperature and Weather.

7 a.m.

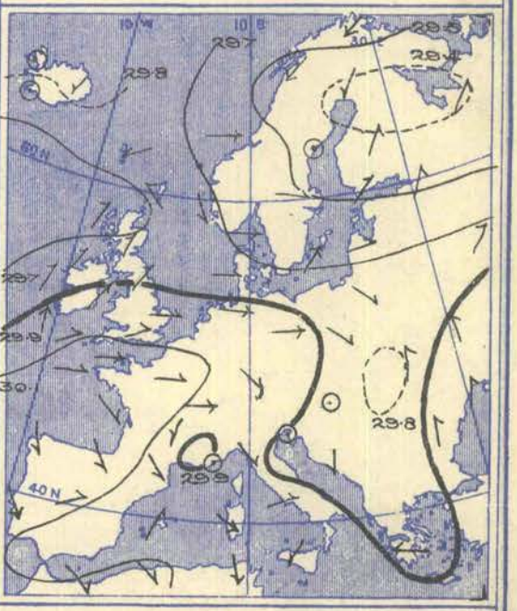


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in the west and north of these Islands and the west of France, with rain in a few places. A thunderstorm prevailing at Skudesnaes and rain falling in several parts of Denmark and Scandinavia. Fine over central and southern Europe and in the east and south of England. Various amounts of rain experienced later in Ireland, Scotland, and the north of England, and also in Norway, Sweden, and Russia.

Temperature fallen somewhat in most regions. Morning readings ranging from 66° at Nice and about 60° at many stations in the south of our area and in North Germany to 50° on the west coast of Ireland and in various districts on the Continent, and to below 30° in the extreme north of Norway. Rising during day to 60° or slightly higher in several parts of England and Ireland and over the major portion of France; maxima above 70° in Austria-Hungary, Italy, southern France, the Peninsula, and Algeria, but only 61° at Athens. Thermometer touching 82° at Gap.

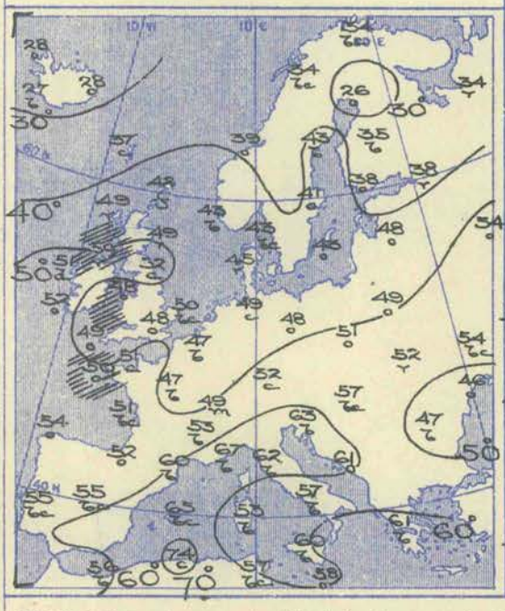
Wind in morning between South and West over these Islands and the northern half of the Continent generally, but North-Easterly in the extreme north. Light or moderate as a whole. Light and more variable over the Mediterranean and southern Europe. No great change occurring later, but backing somewhat in the west of these Islands.

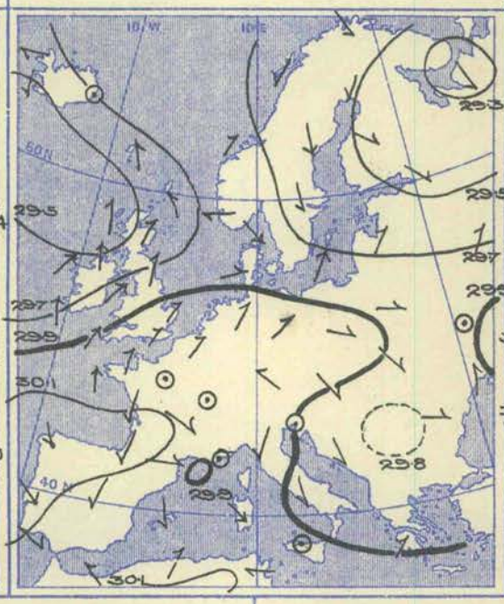
Barometer in morning 30·2 in. in the central portion of an anticyclone extending from the Azores to France, and nearly as high over the Black Sea. Below 29·3 in. in a depression over the north of Scandinavia and relatively low over the Adriatic. Pressure giving way slowly later in the west and north of this country under the influence of a depression on the Atlantic. A shallow depression developing over Poland, and the disturbance in the far north moving in an easterly direction. A slight fall of the mercury taking place within the high pressure area.

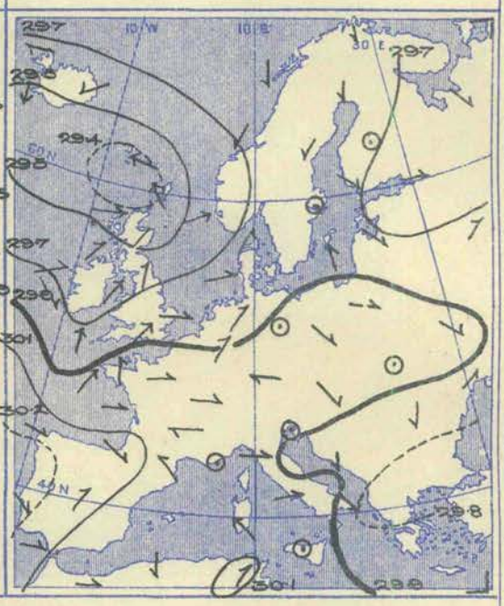
Tuesday, 25th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning overcast, with rain in places, over the United Kingdom and Denmark. Fair or fine in most other regions, but much cloud prevailing in central Europe and rain at Lemberg; rain also falling at Archangel and Oporto. Rain experienced later throughout these Islands and in the north of France, and also in Norway, Denmark, and northern Russia. Quantity moderate or slight in most localities.

Temperature fallen in many central and northern regions, risen on some shores of the Mediterranean. Readings in morning 74° at Algiers, 67° at Nice, 66° at Barcelona and Malaga, and above 60° at several other southern stations. Below 50° over the major portion of these Islands and the northern half of the Continent, and below 32° in the north of Sweden. Maxima during day above 70° very generally in the south of Europe, and as high as 79° at Madrid, but only 61° at Athens and 59° at Oporto. Thermometer touching 60° at a few places in Ireland and England and also in the east of Scotland.

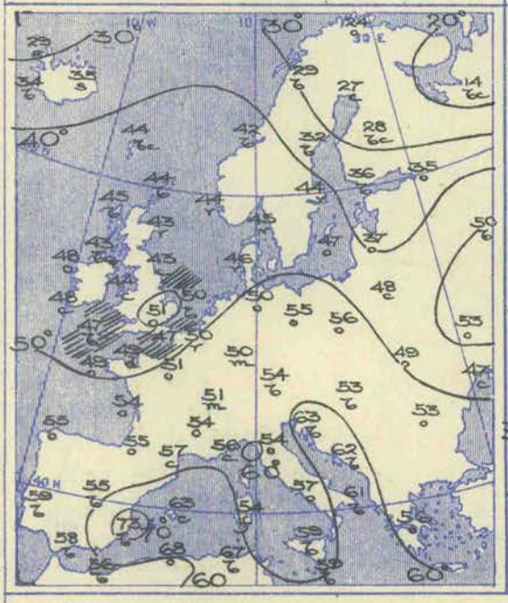
Wind in morning Southerly or South-Westerly over these Islands, light or moderate generally, but strong at Holyhead and Malin Head. Light or moderate breezes—mainly from some Northerly or Westerly point—prevalent over the greater part of the Continent. Veering to the North-Westward later on the west coast of Ireland, but changing little generally.

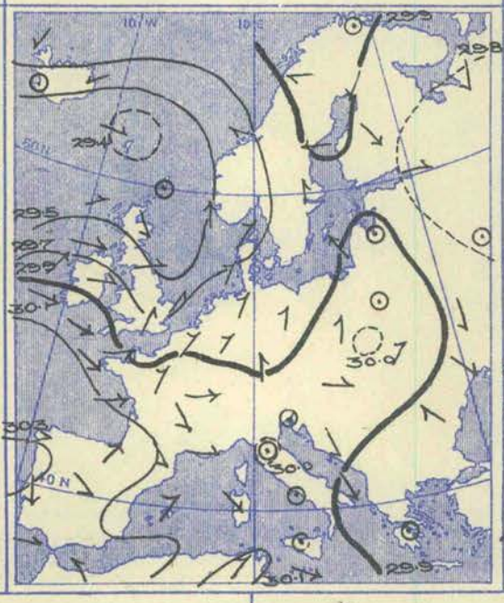
Barometer in morning ranging from 30·0 in. to above 30·1 in. in an anticyclone over Germany, France, and the Spanish Peninsula to below 29·5 in. in a depression off the north-west of Scotland, and to below 29·3 in. in the far north of Russia. No great change occurring later in the general distribution of pressure, but a secondary disturbance appearing over our own western districts.

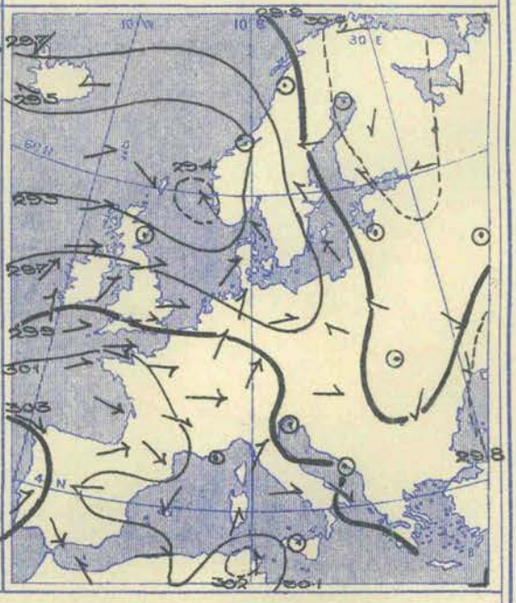
Wednesday, 26th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning variable over our Islands and the western and north-western countries of the Continent, with rain or passing showers in several localities. Cloudy or overcast over a large area in central Europe and Russia, and fair or fine in the south and over the Mediterranean. Rain becoming general over these Islands and their neighbourhood later and also in Germany and Switzerland.

Temperature changed rather irregularly, fallen in most regions. Morning readings ranging from 68° at Algiers and about 60° at several other southern stations to about 50° over a wide area in England, France, and central Europe, to below 32° in the north of Scandinavia, and to 14° at Archangel. Thermometer touching 60° later at a few English stations, but rising to 70° or above over the southern countries and at Berlin, to 81° at Tunis, and to 84° at Malaga. Frost continuing all day in the north of Russia.

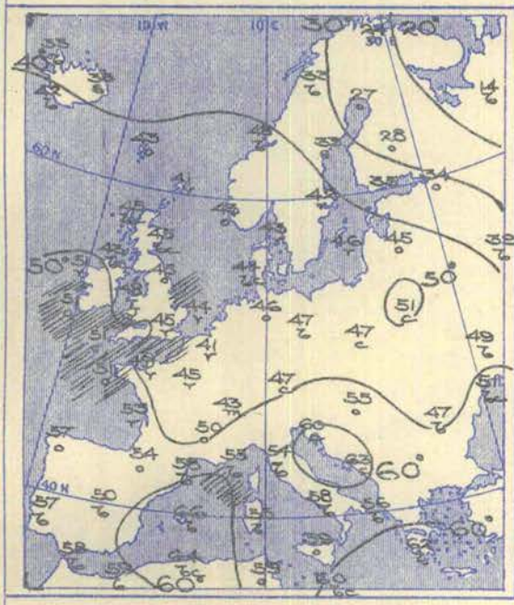
Wind in morning mainly Westerly over the United Kingdom, Southerly beyond the North Sea, and Easterly in Iceland. Fresh to strong over England and the Channel. Light breezes from various points prevailing elsewhere. Backing to the Southward or South-Westward later in the west of these Islands, but no great change over our area as a whole. Westerly current extending to the Netherlands and Germany.

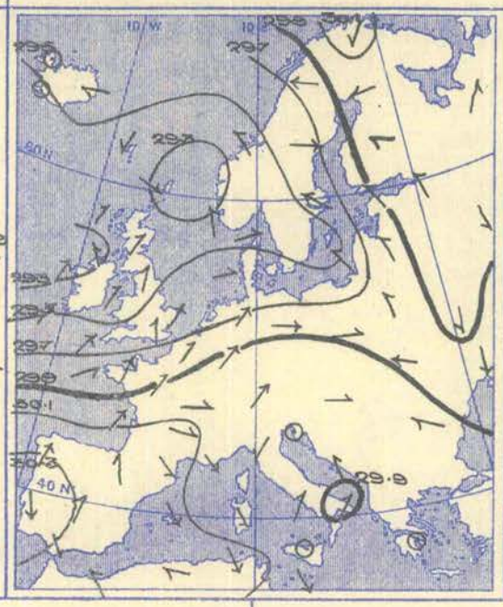
Barometer in morning above 30·2 in. over the western half of the Spanish Peninsula; below 29·8 in. in a large, shallow depression over northern Russia, and below 29·4 in. in another centred near Thorshavn. Relatively low in a "V"-shaped disturbance over England. Depressions travelling eastward later, but a new system beginning to affect the barometer on our western coasts by evening.

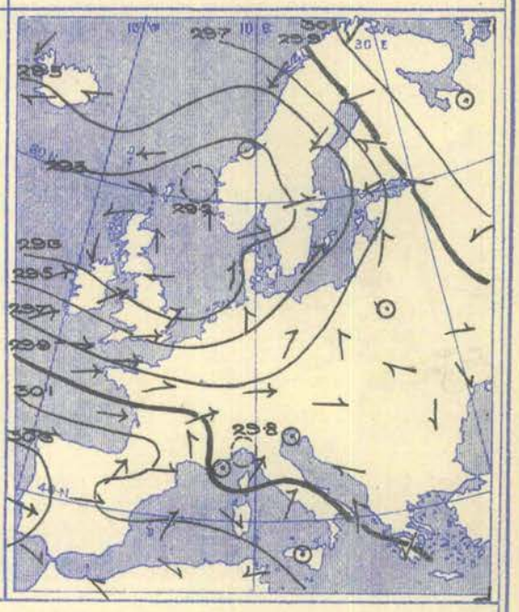
Thursday, 27th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning generally overcast and unsettled over the west and north-west of Europe, with rain in several parts of England and over a large area in France and the Baltic region. Snow falling at Hernösand. Fair to fine and bright at most places in southern Europe and Russia. Rain falling later very generally in these Islands, and also over the northern half of the Continent. Thunder and lightning occurring in some parts of England and Wales.

Temperature fallen in the western countries and at many stations in the south and east Morning readings ranging from 64° at Algiers and about 60° over a wide area in the south. to 50° in the south-west of these Islands and in several districts on the Continent and to much below 32° in the north of Russia. Rising to nearly 60° during day over a considerable portion of England and Ireland. Maxima about 80° in the south of Spain, and above 70° in most parts of southern Europe.

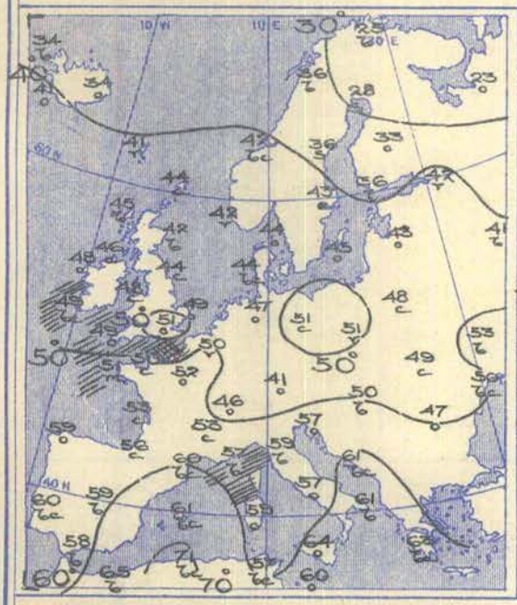
Wind in morning moderate to strong from South or South-West in Ireland, England, and the adjacent portion of the Continent, and mainly Easterly in Scandinavia and Iceland. Varying in direction on the Mediterranean; fresh or strong on the north-east coast of Spain and at Palma. Increasing to a high wind or gale on our south-west and south coasts later, but little change of importance occurring in direction.

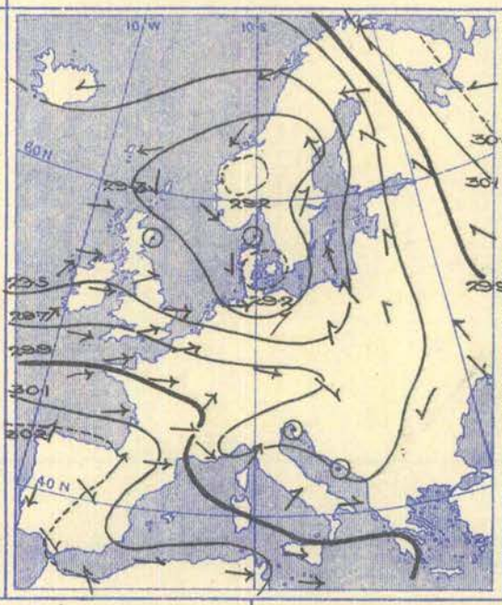
Barometer in morning above 30·3 in. in Portugal; below 29·3 in. in a depression centred off the north-west of Ireland and also in another between Shetland and Norway, and below 29·9 in. in another over the southern part of the Adriatic. Low pressure systems undergoing some modification in depth and position during day, and the high pressure system between Portugal and the Azores decreasing a little in intensity.

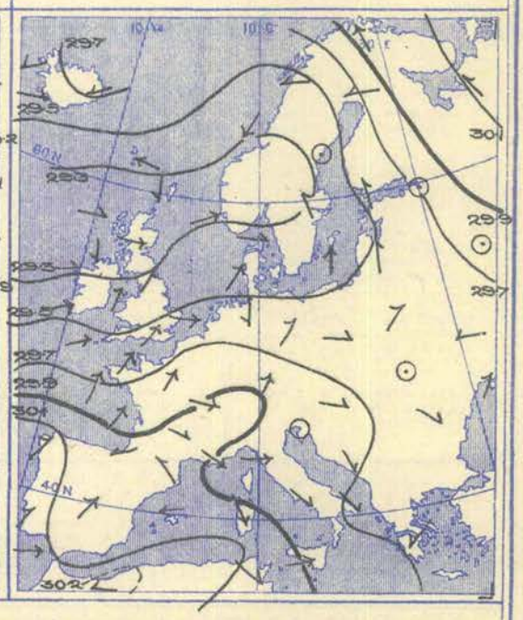
Friday, 28th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to bright in Scotland, very cloudy or overcast over Ireland and England, as well as over the northern half of the Continent. Rain falling in a few scattered localities and snow in the north of Sweden. Generally fair to bright over the southern countries and the Mediterranean. Rain experienced later at almost all our own stations, over a considerable area in France and central and northern Europe, as well as in Greece. A thunderstorm, with 1·12 in. of rain, occurring at Donaghadee.

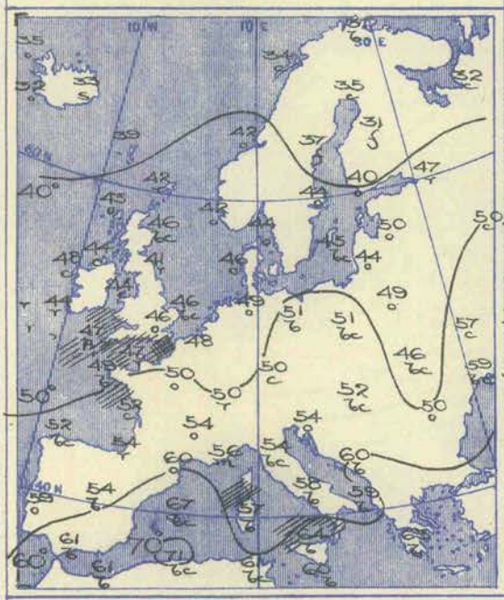
Temperature changed irregularly. Morning readings ranging from 71° at Algiers and above 60° over a large area in the south to about 50° at many places in England and through central Europe, and to below 25° in the extreme north of Russia. Thermometer touching 60° later at a few places in England, central Europe, and the north of France, and rising to 70° or higher over a large portion of southern Europe and Algeria; touching 81° at Madrid, Nemours, and Algiers.

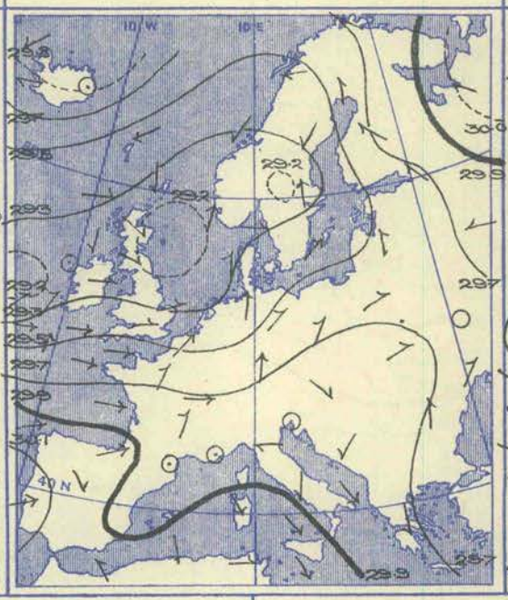
Wind in morning cyclonic generally, the chief circulation being over northern Europe. Westerly current blowing a high wind or gale on the English Channel, but Southerly current over the Baltic and Sweden having slight or moderate force. North-Westerly to Westerly wind, fresh or strong, on some shores of the Mediterranean. Backing from the Westward towards South during day in England and Wales. Gale subsiding on the Channel, but wind remaining fresh or strong.

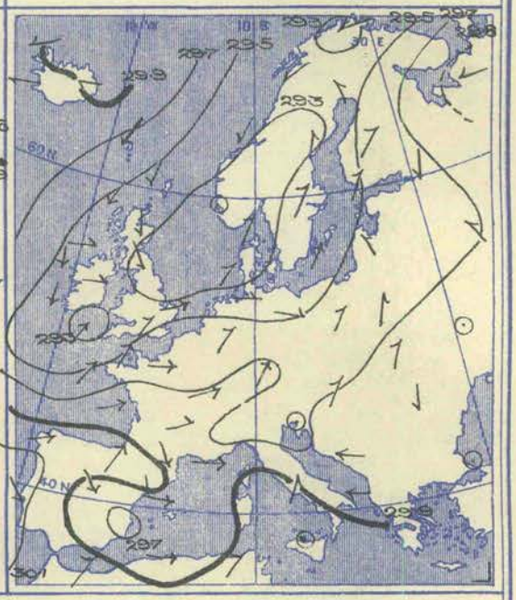
Barometer in morning above 30·2 in. both in the far south-west and north-east of our area; below 29·3 in. in a depression of large size and complex character over Scandinavia, and relatively low over northern Italy and the extreme south-east of Europe, as well as on the Atlantic to the west and north-west of these Islands. Northern depression undergoing much modification in form during day. Pressure decreasing briskly over the west of this country and the Bay of Biscay, and a "V"-shaped depression appearing from the westward.

Saturday, 29th April, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning changeable, with rain or passing showers in these Islands and the adjacent countries of the Continent, and very cloudy or overcast at most places in northern Europe. Fair or fine over the Mediterranean and the south of Russia. Some showers later in nearly all parts of this country, and more or less precipitation throughout France, the Netherlands, Germany, Switzerland, and northern Europe. Thunder heard at Bordeaux.

Temperature fallen in the United Kingdom. Morning readings above 70° at some places in the extreme south of Spain and on the coast of Algeria and about 60° over a wide area in the south; below 45° in most parts of these Islands and northern Europe, and about 32° in central Finland and further north. Maxima during day 55° or above at many of our own stations, and also in France and Germany, above 70° in various parts of Italy, the Spanish Peninsula, and Algeria, and also at Athens. Thermometer touching 77° at Pesaro and Palma, and 88° at Oran.

Wind in morning cyclonic over the major portion of our area, but of little force generally. Fresh to strong from the Westward over the English Channel and in some French localities. Wind shifting to the Northward by evening in the north and west of these Islands, increasing in force from the South-Westward over the eastern portion of the Channel. A separate cyclonic circulation setting in over Spain and its vicinity.

Barometer in morning above 30·1 in. in the extreme south-west of Europe and nearly as high in the extreme north-east; below 29·3 in. in a very extensive system containing three separate minima stretching from beyond Ireland across this country to Scandinavia. Not much change later in the general distribution of pressure. Increasing in the north and extreme west of these Islands, decreasing in the south-west and over Brittany. A well-formed minimum appearing over the south-east of Spain by evening.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	April 24th, 9.50 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	285° 80% 270°, 7	284° 80% 270°, 10	280° 95% 250°, 10	277·5° 95% 260°, 10				1,000	
2	April 25th, 9.50 a.m. to 11.12 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	284° 85% 200°,	283° 85% 200°,	280° 90% 200°,	278° 100% 190°,				281° 50% 170°, 1,300	Clouds at 700 m. Inversion of change of wind direction at about 1,050 m.
3	April 26th, 11.29 a.m. to 10.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	283° 75% 290°, 12	282° 75% 290°, 15	279° 85% 290°, 17	276·5° 95% 290°, 19				1,000	Cirrus, and a few cumulus not reached. Strong wind, backed to W.S.W in evening.
4	April 27th, 9.45 a.m. to 10.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 95% 225°, 12	289° 95% 225°, 16	285·5° 100% 240°, 18					284·5° 100% 250°, 20 850	Clouds at 500 m. Strong, but very steady wind. Light rain. Severe squall at 10.30 a.m., when wind changed to W.S.W.
5	April 28th, 2.48 p.m. to 3.22 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285·6° 70% 250°, 12	284° 70% 250°, 16	281·5° 80% 250°, 18	277·5° 90% 250°, 19				1,000	Clear. Anemometer failed. Wind estimated from pull. Very marked convection currents.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent	1	2	3	4	5
No. of Kites..	1	2	1	1	1
Area of Surface (sq. metres) ..	7	13	4	4	4
Capacity of Balloon (cub. metres)	—	—	—	—	—
Length of Wire (metres)	1,800	1,800	1,200	900	1,200

South Kensington, London, S.W. *May 3rd, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 18. EIGHTEENTH WEEK, SUNDAY, APRIL 30TH, TO SATURDAY, MAY 6TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d

I.—General Remarks.

Weather. The earlier days of the week were more or less rainy over the Kingdom generally, but although the conditions over England soon became finer and drier, occasional rain continued to fall in the most western and northern parts of these islands until the end of the period.

Temperature was below the average in most districts—as much as 2° in Scotland W.—but almost equal to it in Ireland, and slightly above it in England E. and N.E. The highest of the maxima were recorded on May 6th at the majority of stations, and ranged from 66° in England N.E. and the Midland Counties to 60° Ireland N. and to 57° in Scotland N. The lowest of the minima, which occurred, as a rule, early in the week, were below 32° in Scotland, the Midlands and the western districts of England, the lowest reading being 28° in Scotland E. Elsewhere the minima varied between 33° in England S.E. and 43° in the English Channel. The lowest grass minima were 23° at Crathes, 24° at Burnley, 25° at Balmoral, and 26° at Durham and Colmonell.

Mean Temperature of the Sea. On the Irish coasts and at various places on the coasts of Great Britain the sea water was warmer than during the corresponding week of last year, but on the south-west coast of England it was somewhat cooler. The means for the week ranged from 52° at Seafield, and 50° at the other Irish stations and at Scilly and Margate, to between 43° and 44° at Cromarty and Burnmouth.

Rainfall was less than the average in England E. and N.E., and about equal to it in the Midland Counties and the English Channel. Elsewhere there was an excess, that in Scotland N. and W., the western counties of England, and in Ireland being large. Falls of more than an inch occurred at Fort William and Killarney on May 1st and at Foynes on the 2nd, the largest measurement being 1·33 in. at Fort William.

Bright Sunshine exceeded the normal in Scotland N., England E. and S.E. and the Midland Counties and just equalled it in England N.E. and N.W. Elsewhere it was less, but the deficiency was not very great. The percentage of the possible duration ranged from 50 in England S.E. and 47 in England E. to 31 Ireland S. and to 25 in Ireland N.

Barometer and Wind. At the beginning of the week depressions were shown to the north-eastward and south-eastward of these Islands, and the general direction of the wind was Northerly to North-Westerly. By Monday, however, another cyclonic system was extending over the Kingdom from the westward, and the wind had returned to the Southward or South-Westward very generally. A Southerly to Westerly type of conditions continued the rule until towards the end of the period, when the Atlantic high pressure system extended over this country and the wind became light and rather variable. Early in the week the wind rose to gale force on the north coast of Ireland and in Shetland, and on Wednesday a gale was experienced for a time on various parts of our western and southern coasts, as well as at Spurn Head.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 148.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Heavy	Moderate	Light	Moderate	Moderate	Moderate	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 9 weeks from Mar. 5th, 1911.	Warmth ...	1 * 1	2 * 2	3 * 1	2 * 1	2 * 1	0 * 1	1 * 3	1 * 2	0 * 2	0 * 1	2 * 3	0 * 2
	Rainfall ...	4 * 4	3 * 3	2 * 6	2 * 2	2 * 3	3 * 2	3 * 5	3 * 4	5 * 4	3 * 5	4 * 3	3 * 2
	Sunshine ...	4 * 3	1 * 4	0 * 4	0 * 2	0 * 4	2 * 3	2 * 3	2 * 2	1 * 3	3 * 4	3 * 3	1 * 4

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

961S / 450 Wy. & S., Ltd. 5—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
EIGHTEENTH WEEK—April 30th to May 6th, 1911.																		
	°	°	°		°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	57	29	50·9	38·2	44·2	- 1·5	31	- 6	11	+ 2	6	+ 1	1·26	+0·58	39	+ 5	36	+ 5
Eastern																		
1. SCOTLAND, EAST	64	28	53·6	37·0	44·8	- 1·3	41	- 2	14	+ 4	4	0	0·58	+0·11	36	- 1	34	- 1
2. ENGLAND, N.E.	66	34	55·9	40·1	47·5	+ 0·7	46	+ 5	5	0	3	0	0·21	-0·20	41	0	39	0
3. ENGLAND, EAST	65	34	57·8	40·6	48·7	+ 0·3	53	+ 1	4	- 2	2	- 1	0·29	-0·10	48	+ 5	47	+ 5
4. MIDLAND COUNTIES	66	30	57·7	39·7	48·2	- 0·1	53	- 1	6	- 3	3	0	0·41	-0·01	40	+ 1	38	+ 1
5. ENGLAND, S.E.	65	33	56·7	42·1	49·0	- 0·6	49	- 7	0	- 2	3	0	0·45	+0·06	51	+ 7	50	+ 7
Western																		
6. SCOTLAND, WEST	61	30	52·8	38·7	45·3	- 2·1	37	- 9	9	+ 5	5	+ 1	1·54	+0·87	38	- 1	36	- 1
7. ENGLAND, N.W.	62	31	54·4	41·7	47·6	- 0·4	40	- 6	1	- 2	4	0	0·93	+0·42	40	0	38	0
8. ENGLAND, S.W.	63	30	54·6	42·9	48·4	- 0·6	45	- 6	0	- 2	4	0	0·85	+0·31	35	- 9	34	- 8
9. IRELAND, NORTH	60	36	54·2	41·9	47·7	- 0·2	40	- 6	0	- 3	5	+ 1	1·07	+0·48	26	- 11	25	-10
10. IRELAND, SOUTH	61	38	55·9	44·1	49·6	+ 0·2	53	- 1	0	- 2	6	+ 2	1·32	+0·70	32	- 9	31	- 8
11. ENGLISH CHANNEL	64	43	55·8	45·3	50·3	- 0·4	58	- 3	0	0	3	0	0·48	+0·03	42	- 11	41	-11
THE SEASON (Spring).—Aggregates, &c., for the Period of 9 Weeks, March 5th to May 6th, 1911.																		
0. SCOTLAND, NORTH	60	22	*	*	*	*	160	- 28	196	-10	37	- 5	7·14	-0·33	248	- 3	30	0
Eastern																		
1. SCOTLAND, EAST	65	17	*	*	*	*	187	- 51	203	-19	40	+ 5	3·91	-0·40	236	-37	29	- 5
2. ENGLAND, N.E.	66	26	*	*	*	*	209	- 31	150	-16	35	+ 3	2·73	-0·73	238	-59	29	- 7
3. ENGLAND, EAST	69	22	*	*	*	*	266	- 46	156	-18	31	+ 1	3·42	+0·19	281	-25	34	- 3
4. MIDLAND COUNTIES	68	22	*	*	*	*	253	- 70	171	-14	29	0	2·90	-0·72	234	-43	29	- 5
5. ENGLAND, S.E.	66	24	*	*	*	*	263	- 68	134	+15	30	+ 2	4·14	+0·63	294	-11	36	- 1
Western																		
6. SCOTLAND, WEST	61	20	*	*	*	*	219	- 29	165	+11	30	- 5	5·78	-0·63	255	-30	31	- 4
7. ENGLAND, N.W.	62	26	*	*	*	*	229	- 32	130	- 1	30	- 3	4·18	-0·43	263	-11	32	- 1
8. ENGLAND, S.W.	66	22	*	*	*	*	251	- 66	124	+25	31	- 2	5·81	+0·66	286	-24	35	- 3
9. IRELAND, NORTH	63	22	*	*	*	*	239	- 38	134	+10	31	- 7	4·28	-0·97	265	- 4	32	0
10. IRELAND, SOUTH	68	23	*	*	*	*	313	- 26	124	+32	38	+ 3	5·87	+0·13	287	-13	35	- 2
11. ENGLISH CHANNEL	64	28	*	*	*	*	330	- 44	54	+24	40	+ 6	5·23	+0·96	330	-39	41	- 5
THE YEAR.—Aggregates, &c., for the Period of 18 Weeks, January 1st to May 6th, 1911.																		
0. SCOTLAND, NORTH	60	14	*	*	*	*	249	+ 1	415	-121	83	- 5	19·55	+1·12	334	- 5	25	0
Eastern																		
1. SCOTLAND, EAST	65	11	*	*	*	*	272	- 34	487	-112	74	+ 4	8·24	-1·06	379	- 18	28	- 1
2. ENGLAND, N.E.	66	19	*	*	*	*	333	+ 13	371	- 96	63	- 2	5·24	-1·61	372	- 52	27	- 4
3. ENGLAND, EAST	69	16	*	*	*	*	378	- 24	409	-104	67	+ 3	6·68	+0·08	428	- 18	31	- 1
4. MIDLAND COUNTIES	68	14	*	*	*	*	375	- 52	415	-106	56	- 6	5·47	-2·33	363	- 34	26	- 3
5. ENGLAND, S.E.	66	16	*	*	*	*	366	- 83	361	- 17	59	- 1	7·26	-0·70	446	+ 7	32	+ 1
Western																		
6. SCOTLAND, WEST	61	18	*	*	*	*	342	+ 5	347	- 69	70	- 5	15·17	-0·09	365	- 26	27	- 2
7. ENGLAND, N.W.	62	17	*	*	*	*	340	- 15	314	- 68	62	- 7	9·47	-0·81	389	+ 2	28	0
8. ENGLAND, S.W.	66	13	*	*	*	*	364	-104	297	- 1	64	- 5	10·78	-1·37	428	- 18	31	- 1
9. IRELAND, NORTH	63	18	*	*	*	*	392	- 10	302	- 39	68	-12	9·68	-2·10	397	+ 10	29	+ 1
10. IRELAND, SOUTH	68	18	*	*	*	*	502	- 23	295	+ 38	75	+ 2	10·81	-2·48	426	- 10	31	- 1
11. ENGLISH CHANNEL	64	28	*	*	*	*	518	- 75	135	+ 26	73	- 2	8·70	-1·48	488	- 49	35	- 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*51*	*6th*	*36*	*1st, 6th*	*48·9*	*38·7*	*43·5*	—	*24*	*9*	7	*1·32*	—	*48·1*	—	*43*	—	*Baltasound.*
	a Sumburgh Head ..	51	4th	35	1st, 2nd	49·6	37·7	43·3	+ 0·2	27	12	4	0·70	+ 0·23	35·0	- 2·7	32	- 3	Deerness.
	a Stornoway	52	5th	34	1st	49·7	39·9	44·5	- 0·3	26	6	6	1·31	+ 0·69	33·0	- 7·2	31	- 7	Stornoway.
	a *Castlebay, Barra Isd.*	*51*	*5th*	*40*	*30th, 1st*	*49·4*	*42·1*	*45·5*	- *2·5*	*25*	*0*	*5*	*1·18*	—	*48·6*	—	*40*	—	*Castlebay.*
	a Wick	54	6th	30	*1st*	50·4	36·9	43·3	- 1·7	31	14	6	0·65	+ 0·20	*	*	*	*	*
	p Strathpeffer.. ..	57	2nd	?33	6th	53·5	37·8	45·2	- 0·6	40	12	5	0·28	- 0·16	30·1	- 6·1	28	- 6	Strathpeffer.
	p Glencarron .. S	56	2nd	35	6th	49·2	39·1	43·9	- 0·7	25	8	7	1·89	+ 0·67	*	*	*	*	*
b, Mainland.	p Fort Augustus S	55	5th	29	1st	52·2	37·3	44·3	- 1·3	36	13	5	0·70	+ 0·17	19·8	- 9·0	19	- 8	Fort Augustus.
	p Fort William S	54	4th	32	1st	51·8	38·5	44·8	- 1·9	34	10	6	3·27	+ 2·39	*	*	*	*	*
1. SCOTLAND, E. ..	p Gordon Castle S	64	6th	34	1st	56·1	37·0	46·0	- 0·1	49	14	5	0·34	- 0·04	*41·6*	—	*39*	—	*Gordon Castle.*
	a Nairn	61	2nd	31	1st, 6th	54·9	36·0	44·9	- 1·1	46	17	7	0·30	- 0·07	32·5	—	30	—	Nairn.
	a Aberdeen	57	4th	36	1st, 5th	53·0	39·0	45·6	- 0·1	38	8	4	0·53	+ 0·06	36·4	- 3·2	34	- 3	Aberdeen.
	a Balmoral .. S	61	6th	30	1st, 5th	50·6	34·4	42·0	- 0·8	24	21	3	1·03	+ 0·51	34·5	—	32	—	Crathes S.
	p Crieff .. .. S	60	5th	32	1st	54·2	36·7	44·9	- 2·0	43	15	4	1·00	+ 0·48	38·9	—	36	—	Balruddery.
	a Leith	62	6th	38	1st	55·3	41·1	47·8	+ 0·8	44	3	4	0·36	+ 0·02	*	*	*	*	*
	p West Linton.. S	59	6th	28	1st	51·3	34·4	42·3	- 1·6	34	21	5	0·73	—	*29·9*	—	*28*	—	*West Linton.*
	p Marchmont .. S	63	6th	34	1st	53·7	37·3	45·0	+ 0·2	41	13	1	0·33	- 0·20	37·6	+ 0·9	36	+ 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	66	6th	36	1st, 6th	55·5	39·6	47·1	+ 1·4	46	7	4	0·38	- 0·07	43·2	—	41	—	Cockle Park.
	a Shields	57	4th	36	1st	54·1	38·1	45·6	- 0·5	42	11	4	0·12	- 0·24	*33·0*	+ *3·7*	*31*	+ *4*	*Newcastle.*
	p Durham	63	6th	34	6th	54·8	38·1	46·0	+ 0·2	44	11	3	0·19	- 0·19	36·8	+ 1·8	35	+ 2	Durham.
	p Rounton .. M	64	6th	34	6th	56·0	37·3	46·1	- 0·1	48	13	5	0·30	- 0·04	*	*	*	*	*
	p Scarborough.. M	60	4th	38	1st	55·4	42·1	48·4	+ 1·8	45	0	3	0·19	- 0·21	46·3	—	44	—	Scarborough.
	p York	63	6th	38	1st	56·9	41·0	48·5	+ 0·1	50	3	2	0·36	- 0·06	34·1	- 1·9	33	- 2	York.
b, South.	a Spurn Head ..	58	1st, 2nd	42	30, 1, 3rd	54·6	43·1	48·5	+ 1·1	46	0	1	0·04	- 0·25	*	*	*	*	*
	a Lincoln	64	6th	36	6th	58·3	40·4	48·8	+ 0·2	54	4	2	0·12	- 0·26	47·3	—	46	—	Skegness.
	a Fulbeck	61	1st	37	5th	57·6	40·9	48·8	+ 0·5	52	3	3	0·16	- 0·24	39·3	—	38	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	60	2nd	37	1st	56·2	41·6	48·5	+ 1·8	47	1	2	0·20	—	*53·0*	—	*52*	—	*Lowestoft.*
	p Hillington .. M	64	6th	35	6th	58·0	38·0	47·4	- 0·8	55	11	3	0·38	- 0·02	42·9	+ 1·5	41	+ 2	Cromer.
	a Yarmouth	57	2nd, 3rd	37	1st	54·9	41·1	47·6	+ 0·4	43	3	2	0·35	- 0·01	49·8	—	48	—	Hillington.
	a Norwich	62	1st, 6th	38	1st, 6th	58·4	41·0	49·2	+ 1·5	55	3	2	0·34	—	*	*	*	*	*
	p Geldeston	62	1st	35	6th	58·7	39·9	48·7	+ 0·7	56	6	2	0·30	- 0·08	45·9	+ 1·9	45	+ 2	Yarmouth.
	p Cambridge	65	6th	34	30th	59·9	38·6	48·6	- 0·5	60	10	3	0·14	- 0·23	46·8	+ 4·5	45	+ 4	Geldeston.
b, South.	a *Felixstowe* ..	*60*	*5th*	*41*	*30th, 6th*	*56·3*	*42·4*	*48·9*	+ *0·7*	*48*	*0*	*3*	*0·19*	—	*55·3*	—	*54*	—	*Felixstowe.*
	a Clacton-on-Sea ..	62	5th	42	30, 1, 3, 5	57·1	43·0	49·6	+ 1·7	53	0	2	0·18	—	49·9	—	48	—	Cambridge.
	a Rothamsted ..	62	1st, 6th	35	5th	58·3	38·7	47·9	- 0·3	55	9	3	0·31	- 0·69	46·7	+ 6·6	45	+ 6	Clacton.
	a *Shoeburyness* ..	*61*	*5th*	*42*	*1st, 5th*	*57·3*	*43·4*	*49·9*	- *0·1*	*55*	*0*	*3*	*0·20*	- *0·06*	*51·7*	—	*50*	—	*Southend.*
	p Tottenham	62	1st, 6th	42	1, 3, 5th	58·8	43·5	50·7	+ 1·3	61	0	3	0·37	—	54·2	—	53	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	62	6th	37	3rd, 6th	54·9	39·6	46·8	+ 0·4	44	7	3	0·36	- 0·11	40·2	—	38	—	Harrogate.
	a Bawtry	65	6th	36	1st, 6th	58·7	40·0	48·8	+ 0·5	56	6	2	0·14	- 0·22	36·0	+ 1·4	35	+ 1	Worksop.
	p *Buxton* .. M	*60*	*6th*	*36*	*6th*	*52·6*	*39·4*	*45·6*	+ *1·6*	*36*	*7*	*3*	*0·84*	+ *0·17*	*39·2*	—	*38*	—	*Buxton.*
	a Nottingham ..	63	6th	36	3rd	57·1	39·6	47·8	- 0·5	51	7	3	0·18	- 0·20	35·1	—	34	—	Nottingham.
	p Birmingham, Edgbsn	63	6th	39	3rd, 4th	56·5	41·3	48·4	+ 0·2	48	2	4	0·52	+ 0·07	38·1	—	37	—	Birmingham.
	a Raunds .. M	66	6th	35	30th	60·6	38·1	48·7	+ 0·4	63	11	2	0·38	—	*	*	*	*	*
	a Oxford	64	6th	37	30th	58·7	41·4	49·5	0·0	55	2	3	0·44	+ 0·07	41·0	+ 1·0	40	+ 1	Oxford.
b, West.	a Cheadle .. M	62	6th	31	2nd	55·9	39·3	47·1	+ 0·1	47	8	3	0·49	+ 0·03	43·1	—	41	—	Sheffield.
	p Shrewsbury ..	63	6th	30	2nd	57·9	38·3	47·5	- 1·5	54	10	6	0·33	—	*	*	*	*	*
	a Hereford .. M	63	5th	35	30th	59·4	40·2	49·2	0·0	58	5	2	0·54	+ 0·10	*	*	*	*	*
	a Cirencester ..	64	6th	34	5th	57·2	36·2	46·1	- 1·6	53	16	3	0·66	+ 0·22	37·7	- 4·3	37	- 4	Cirencester.
	a Bath	63	6th	39	4th	58·0	42·6	49·8	+ 0·3	55	0	2	0·52	+ 0·08	46·1	—	45	—	Bath.
															56·9	—	*55*	—	*Ramsgate.*
5. ENGLAND, S.E...	p Kew	62	1st	40	5th	58·4	43·0	50·2	+ 0·8	57	0	3	0·32	- 0·03	47·5	+ 7·0	46	+ 7	Kew.
	a Marlborough ..	63	6th	34	5th	56·8	37·9	46·8	- 0·8	51	11	4	0·53	+ 0·10	36·9	- 0·9	36	- 1	Marlborough.
	a Margate	61	1st, 5th	41	3rd	57·8	44·4	50·7	+ 1·7	61	0	3	0·26	- 0·06	51·0	+10·4	50	+10	Margate.
	a Wisley, Surrey ..	63	6th	39	5th	57·9	41·8	49·4	- 0·3	53	1	3	0·33	—	51·1	—	50	—	Wisley.
	a Swarraton .. M	63	6th	33	5th	56·9	40·1	48·0	+ 0·2	50	5	4	0·72	+ 0·27	56·0	—	55	—	Worthing.
	a Tunbridge Wells M	60	5th, 6th	36	1st	56·9	39·9	47·9	- 0·6	50	6	3	0·48	+ 0·08	58·1	+15·6	56	+15	Tunbridge Wells.
	a Dungeness	56	6th	41	1st, 5th	54·1	43·0	48·2	- 0·3	43	0	3	0·35	+ 0·06	54·3	—	53	—	Littlestone.
	p Hastings	60	6th	40	3rd	54·5	43·4	48·6	- 0·6	46	0	3	0·48	+ 0·12	*54·5*	+ *7·9*	*53*	+ *8*	*Hastings.*
	p Southampton ..	65	6th	38	5th	57·1	42·7	49·5	- 1·2	53	0	3	0·59	+ 0·15	48·5	+ 4·1	48	+ 4	Southampton.
	a Ventnor	61	6th	42	3rd	56·4	45·2	50·5	+ 0·1	60	0	3	0·44	+ 0·07	54·0	+ 6·4	53	+ 6	Ventnor.
															53·3	+ 6·8	52	+ 7	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*62*	*1st*	*40*	*5th*	*59·1*	*43·7*	*50·9*	+ *0·7*	*62*	*0*	*2*	*0·26*	- *0·09*	*46·5*	+*13·9*	*45*	+ *7*	*Westminster.*
	a *Greenwich*	*64*	*1st*	*40*	*3rd, 5th*	*60·0*	*42·1*	*50·5*	+ *0·7*	*60*	*0*	*3*	*0·33*	+ *0·01*	*51·4*	+*19·8*	*50*	+*12*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	55	6th	32	1st	52·0	39·1	45·2	- 2·2	35	8	5	1·96	+ 1·36	*	*	*	*	*
	p Glasgow	59	6th	37	1st	52·9	40·6	46·4	- 1·1	37	4	5	1·02	+ 0·50	28·1	- 5·5	27	- 5	Glasgow.
	p Rothesay .. S	61	6th	34	1st	54·3	40·1	46·8	- 0·9	42	5	6	2·07	+ 1·42	*	*	*	*	*
	a Kilmarnock ..	58	6th	33	1st	53·0	39·3	45·7	- 1·5	37	8	5	1·47	—	*32·6*	—	*31*	—	*Kilmarnock.*
	a Colmonell .. S	60	6th	30	1st	53·0	36·7	44·4	- 3·1	39	15	6	1·54	+ 0·98	*	*	*	*	*
	p Dumfries .. S	58	6th	32	3rd	52·9	36·7	44·3	- 3·4	38	15	4	1·64	+ 1·10	*30·1*	—	*29*	—	*Dumfries.*
	p Cally, Gatehouse S	58	6th	31	1st, 6th	51·7	36·8	43·3	- 3·4	34	15	4	1·73	+ 1·04	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	55	5th, 6th	37	1st	52·2	40·6	46·1	- 0·9	35	4	4	0·85	+ 0·27	48·1	+ 1·5	46	+ 1	Douglas.
															51·1	—	49	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	58	6th	36	1st	53·3	39·4	45·9	- 0·6	38	7	4	1·35	+ 0·82	39·2	—	37	—	Aspatria.
	p Newton Rigg ..	62	6th	31	1st	53·3	37·0	44·7	- 1·1	40	14	4	0·97	+ 0·45	35·7	- 4·2	34	- 4	Newton Rigg.
	p Stonyhurst	57	6th	35	1st	53·0	39·4	45·8	- 1·1	38	7	6	0·77	+ 0·14	34·9	- 3·4	33	- 3	Stonyhurst.
	p Blackpool .. M	58	6th	36	6th	53·0	41·7	47·0	- 0·7	36	1	3	1·12	+ 0·66	47·3	+ 6·3	45	+ 6	Blackpool.
	p M'nch'ster,Prestwich	62	6th	35	1st	55·1	40·7	47·5	+ 0·2	44	4	5	0·82	+ 0·28	*29·1*	- *5·0*	*28*	- *5*	*Prestwich.*
	a Liverpool (Bidston)	59	6th	42	30, 1, 3rd	54·6	43·7	48·8	+ 0·6	48	0	5	0·35	- 0·05	*52·3*	—	*50*	—	*Liverpool.*
	a Hawarden Bridge ..	62	6th	41	6th	56·5	44·4	50·1	+ 0·7	57	0	3	0·20	- 0·16	*50·5*	+ *6·9*	*48*	+ *7*	*Southport.*
															54·8	—	*53*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	60	6th	42	1st	55·2	44·2	49·4	+ 0·7	52	0	4	0·69	+ 0·28	43·1	+ 1·8	41	+ 2	Llandudno.
	a Holyhead	59	6th	42	1st	53·7	44·6	48·9	+ 0·8	48	0	4	1·30	+ 0·83	35·8	—	35	—	Aberdovey.
	p Bettws-y-Coed ..	62	6th	37	1st	55·9	41·6	48·3	0·0	46	1	4	1·74	—	29.3	—	28	—	Bettws-y-Coed.
															34·9	—	34	—	Aberystwyth.
															26·6	—	26	—	Llangammarch Wells.
8. a, SOUTH WALES ..	a Llangammarch Wells	58	5th	30	30th	54·4	39·7	46·6	- 0·4	42	6	5	1·26	—	45·5	- 0·2	44	0	Pembroke.
	a Pembroke	55	6th	41	30th	51·9	45·0	48·2	0·0	43	0	4	1·32	+ 0·89	*33·4*	—	*32*	—	*Cardiff.*
	p Cardiff	59	5th	40	30th, 4th	55·3	42·4	48·5	- 1·7	46	0	4	1·07	+ 0·52	*38·1*	- *8·2*	*37*	- *8*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	61	6th	40	1st	56·5	43·2	49·5	- 0·4	53	0	4	0·69	+ 0·18	*38·6*	—	*38*	—	*Clifton.*
	a Shaftesbury .. M	62	6th	38	3rd	55·8	40·5	47·7	- 0·4	46	4	3	0·47	- 0·03	*	*	*	*	*
	a Arlington	58	5th	38	30th, 4th	52·7	41·3	46·7	- 0·8	36	2	2	1·07	+ 0·42	35·1	- 9·9	34	-10	Newquay.
	a Cullompton .. M	63	6th	37	3rd, 5th	58·3	42·2	49·8	+ 0·5	55	0	7	0·63	+ 0·12	35·2	- 5·3	35	- 5	Cullompton.
	a Portland Bill ..	56	6th	43	30th	51·7	46·1	48·7	- 0·6	47	0	3	0·27	—	*56·2*	—	*55*	—	*Weymouth.*
	p Plymouth	59	5th	40	1st	55·2	44·3	49·4	- 0·9	52	0	4	0·72	+ 0·22	34·8	-10·2	34	-10	Plymouth.
	p Falmouth	57	5th, 6th	43	30th	54·3	44·6	49·2	- 0·5	50	0	3	1·00	+ 0·46	35·1	-13·3	34	-13	Falmouth.
															42·6	—	*42*	—	*Salcombe.*
															41·6	- *4·8*	*41*	- *5*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	54	6th	41	1st, 4th	51·7	42·7	46·9	- 0·1	34	0	4	0·48	+ 0·02	*	*	*	*	*
	a Blacksod Point ..	55	5th	42	2nd	52·7	45·1	48·7	+ 0·2	47	0	5	2·17	+ 1·53	*	*	*	*	*
	p Markree Castle ..	60	6th	36	1st	55·4	39·4	46·9	- 0·4	45	7	5	1·14	+ 0·54	30·9	- 7·6	29	- 7	Markree Castle.
	a Birr Castle	58	5th, 6th	38	4th	56·0	42·3	48·7	+ 0·6	47	0	6	1·20	+ 0·69	*23·5*	-*10·5*	*27*	-*10*	*Birr Castle.*
b, East.	p Armagh	57	30th	39	30, 1, 4th	55·1	40·1	47·2	- 0·3	44	5	5	0·82	+ 0·30	21·9	-15·8	21	-15	Armagh.
	a Donaghadee	58	4th, 6th	38	1st	54·4	41·7	47·7	+ 0·4	41	1	4	0·61	+ 0·12	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	61	6th	41	4th	57·2	44·4	50·4	+ 0·6	59	0	5	0·62	+ 0·19	37·7	- 5·3	36	- 5	Phœnix Park.
	a Kilkenny	60	6th	39	4th	56·6	43·6	49·7	+ 1·3	54	0	6	0·90	+ 0·40	*	*	*	*	*
	a Waterford	60	6th	38	1st, 4th	56·1	43·3	49·3	+ 0·6	51	0	5	1·32	+ 0·79	*	*	*	*	*
	a Birr Castle	58	5th, 6th	38	4th	56·0	42·3	48·7	+ 0·6	47	0	6	1·20	+ 0·69	28·5	-10·5	27	-10	Birr Castle.
b, West.	a Foynes	60	6th	41	4th	55·4	44·5	49·6	+ 0·3	53	0	7	1·36	+ 0·83	*	*	*	*	*
	a Cahir .. .. M	60	6th	38	1st, 4th	56·8	42·4	49·2	+ 0·8	50	0	5	1·13	—	*	*	*	*	*
	a Killarney	60	5th	43	30th, 4th	56·7	45·2	50·6	+ 1·7	60	0	6	2·34	+ 1·62	*	*	*	*	*
	a Valencia	55	4, 5, 6th	42	3rd	53·9	46·0	49·7	0·0	54	0	7	1·90	+ 1·12	29·9	-12·4	29	-12	Valencia.
	a Roche's Point ..	57	30th, 5th	41	1st	54·1	45·0	49·3	- 0·5	51	0	5	1·14	+ 0·53	—	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	56	5th	44	30th	54·1	45·7	49·7	- 0·5	54	0	3	0·61	+ 0·21	28·4	-18·9	28	-19	Scilly.
	a Jersey, St. Aubins ..	64	6th	43	3rd, 5th	57·0	44·6	50·4	- 0·4	59	0	3	0·38	- 0·10	43·2	- 6·8	43	- 7	St. Heliers.
	a Guernsey	62	6th	43	3rd	56·3	45·7	50·7	+ 0·1	61	0	2	0·46	- 0·04	53·8	+ 0·7	53	+ 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 58·4 hrs. (+13·0 hrs.), 57 % (+13 %); Bournemouth, 56·5 hrs., 55 %; Bognor, hrs., %.*

For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	44·8	—
— — ..				
— — ..				
1. Aberdeen	—	—	—	44.6
Crathes	4	23	45·9	44·7
Balmoral	5	25	—	—
West Linton.. ..	—	—	—	—
Marchmont ..	—	—	46·0	—
2. Cockle Park	2	28	45·3	44·9
Durham	3	26	—	—
York	—	—	47·5	46·0
Hull	2	30	47·6	45·3
Lincoln	—	—	47·6	45·9
Rauceby	3	28	50·2	46·9
3. Norwich	0	31	—	—
Yarmouth	—	—	50·7	49·4
Lowestoft	0	35	50·7	47·9
Cambridge	0	31	50·3	48·5
Clacton-on-Sea ..	1	29	50·5	48·9
Southend	0	36	51·0	—
Tottenham	0	36	—	48·5

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
4. Harrogate	1	27	45·6	45·1
Huddersfield ..	1	30	47·2	44·2
Buxton	1	27	46·5	44·1
Sheffield	0	32	47·2	44·8
Nottingham.. ..	1	30	49·0	45·9
Birmingham.. ..	3	27	45·5	45·2
Oxford	1	30	—	—
Hereford	2	28	—	—
Cirencester	2	30	48·1	46·4
Bath	—	—	—	—
5. Margate	0	38	50·0	47·5
Greenwich	1	29	—	—
Westminster ..	0	35	—	—
Kew	2	30	50·4	47·8
Canterbury	0	36	50·1	48·5
Tunbridge Wells ..	3	29	50·6	—
Wisley	1	29	49·7	47·9
Worthing	0	34	51·7	48·6
Portsmouth	1	30	52·4	50·0
6. Glasgow	2	27	—	—
Rothesay	—	—	—	46·0
Colmonell	2	26	—	—

TATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
6. Dumfries	4	28	46·7	46·0
Douglas	0	33	—	—
7. Aspatria	1	30	47·3	45·6
Newton Rigg ..	1	30	46·1	44·3
Burnley	3	24	45·6	44·3
Southport	3	27	50·0	48·5
Manchester City ..	0	36	46·9	47·1
Bettws-y-Coed ..	0	35	48·4	46·9
8. Llangammarch Wells	1	27	47·3	45·7
Cardiff	0	32	49·7	47·1
Clifton	0	36	—	—
Plymouth	0	33	51·5	—
9. Armagh	0	31	49·6	47·6
Markree	2	30	50·6	47·6
10. Dublin, Trin. Coll. ..	0	35	50·7	48·9
11. Guernsey, Brooklyn	0	43	50·7	48·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	44	44·7
	Kirkwall	51	47	48·6
	Wick	? 46	? 45	? 45·6
SCOTLAND, E.	Cromarty	? 45	? 40	? 43·3
	Pennan Bay	46	43	44·5
	Aberdeen, Cove Bay ..	45	44	44·2
ENGLAND, N.E.	Burnmouth, Berwick ..	44	43	43·7
	Scarborough	47	44	45·2
ENGLAND, E.	Shipwash Lightship ..	49	46	47·5
	Margate‡	52	48	49·9
ENGLAND, S.E.	Eastbourne‡	49	48	48·6

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	48	46	46·5
	Ballantrae	46	44	45·1
ENGLAND, N.W.	Port Erin	48	46	46·5
ENGLAND, S.W.	Newquay	50	48	48·8
	Scilly	52	49	49·7
	Plymouth‡	48	47	47·6
	Salcombe	52	47	47·9
IRELAND, N.W.	Sheephaven	50	50	50·0
	Teelin	52	48	50·2
IRELAND, S.W.	Cleggan	53	48	50·1
	Seafield	54	50	51·7
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

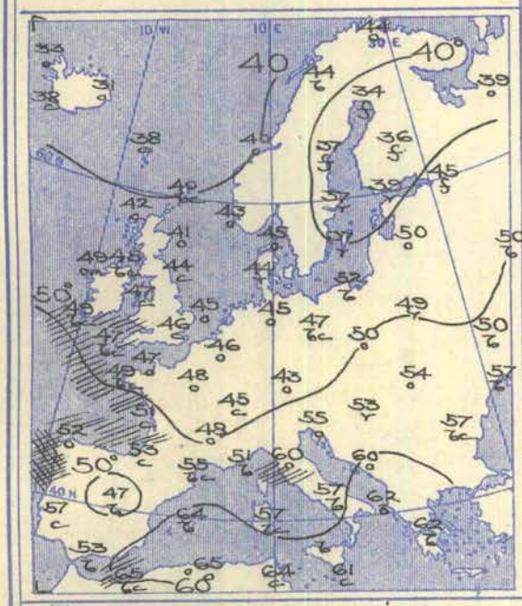
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

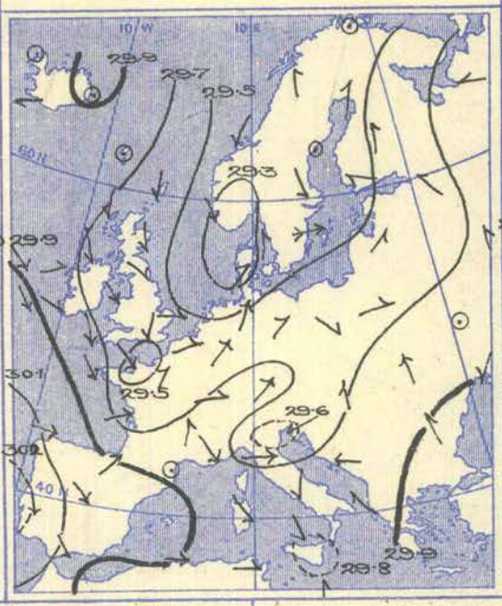
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

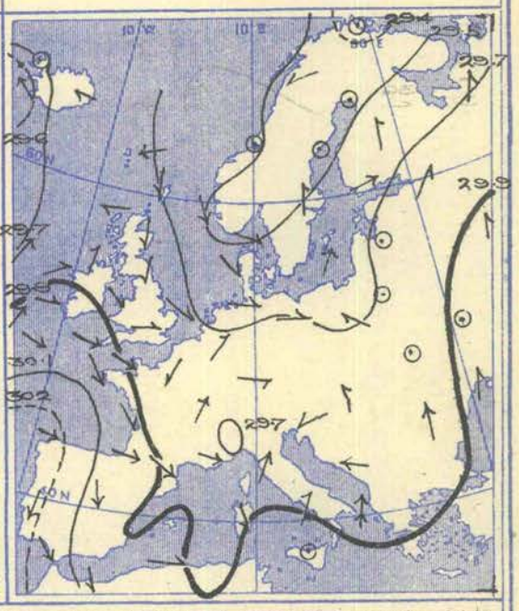
Sunday, 30th April, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning cloudy or overcast over the major portion of our area, but fair over a considerable part of the Mediterranean region and Russia. Rain falling in several French localities, in Jutland, various stations in central Europe, and in the south of Sweden. Rain later over parts of Austria-Hungary, Germany, Switzerland, and the United Kingdom.

Temperature showing no decided change. Morning readings above 60° at various stations on the shores of the Mediterranean; 69° at Sfax. Below 50° in the United Kingdom, nearly all parts of France, in the central and northern countries, and below 40° in Sweden, Finland, and northern Russia. Maxima during day not much below 60° at some stations in this country, the north of France, and in Germany, and above 70° at a few places in southern Europe and Algeria. Thermometer touching 81° at Palermo and 79° at Brindisi.

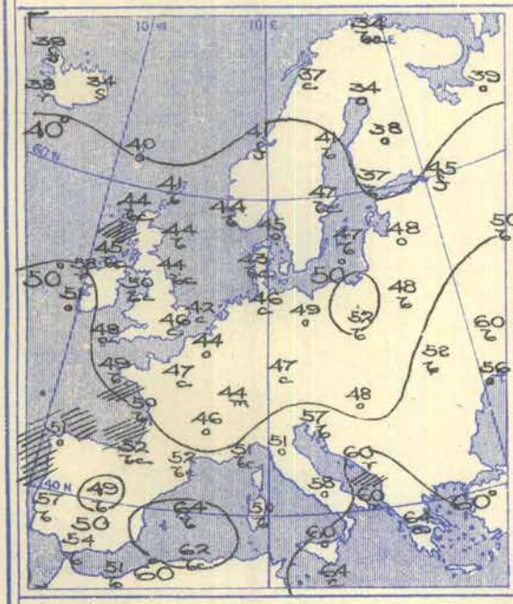
Wind in morning cyclonic very generally. Northerly and North-Westerly current moderate in these Islands, but that from between North-West and South-West fresh to strong in France, and the North-Westerly wind strong to a gale in the Spanish Peninsula. A gale from the Westward prevailing at Wisby. Wind continuing strong in France, but shifting to North-West or North generally, and remaining strong to a gale in the Peninsula. A high wind from East setting in at Pesaro, and from South-East in the south-west of Iceland. Backing towards West by evening in Ireland.

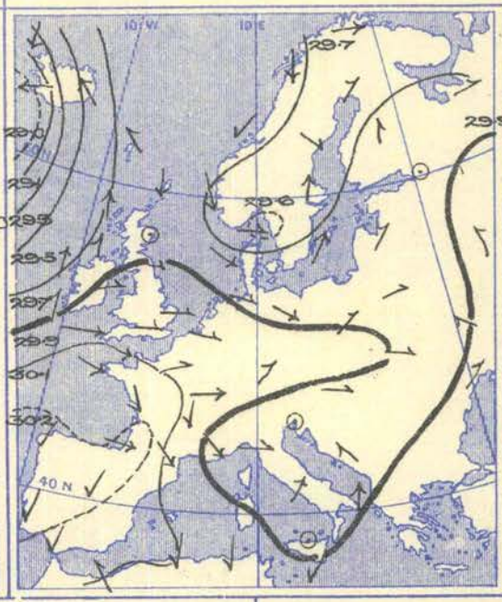
Barometer in morning about 30·2 in. in Portugal, below 29·5 in. in a depression over northern France, below 29·3 in. in another minimum over the south of Norway and its vicinity, and relatively low in other systems in the south of our area. French depression moving south eastward later, and the other disturbances undergoing considerable alteration both in form and position. Pressure increasing decidedly in these Islands and over the Bay of Biscay but a brisk fall setting in in Iceland.

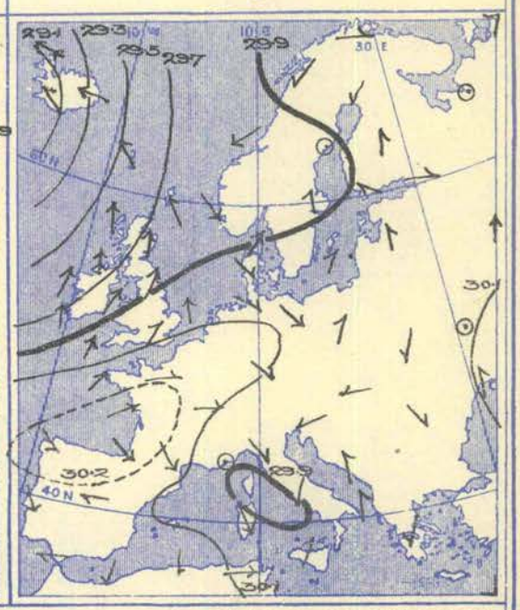
Monday, 1st May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning showery or rainy in Ireland, fair to fine over the major portion of our area, but rain falling at Memel and also on the shores of the Adriatic. Rain experienced later in the west and north of the United Kingdom, more than 0·75 in. at some Irish stations, and larger amounts in the south of Italy; as much as 1·6 in. at Naples. About 0·6 in. of rain or snow at St. Petersburg. Thunderstorms at Clermont, Biarritz, and Perpignan.

Temperature changed slightly and rather irregularly. Readings in morning 60° at Kieff and above that figure at many places over southern Europe; about 50° at a few of our own western and southern stations, but below it over the greater part of the Continent, and below 40° in the far north, as well as in the north-east of Scotland. Rising to 60° later in various parts of England, France, and Austria-Hungary, to above 70° in some districts further south, and to 86° at Bucharest. Maximum only 61° at Palermo and 64° at Algiers.

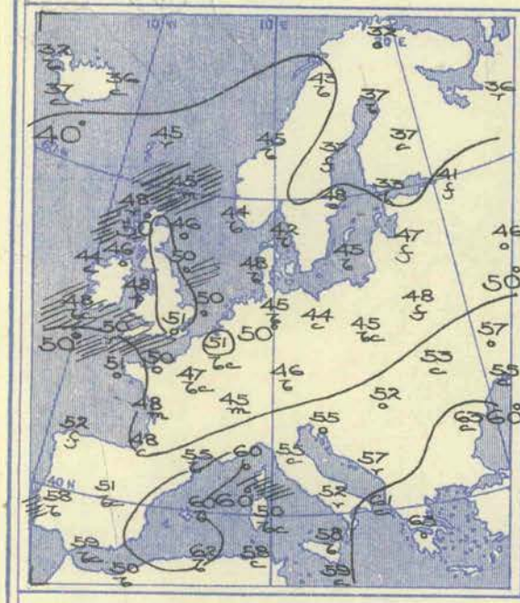
Wind in morning light or moderate from the Southward in Ireland and Scotland, and from the Westward in England; drawing into East and blowing strongly in Iceland. Cyclonic circulations of little force prevailing over Scandinavia and Italy. Southerly wind increasing considerably later in the west of these Islands, and reaching gale force by evening at Malin Head. High wind or gales setting in from the South-Eastward in the Icelandic region. Some increase in force taking place on the coast of Algeria and Tunis.

Barometer in morning above 30·2 in. in the south-west of our area and above 30·1 in. in the south-east and east; below 29·0 in. in a large depression to the south-westward of Iceland, below 29·6 in. in a smaller system centred over the Kattegat, and relatively low over Italy and its neighbourhood. A secondary disturbance spreading over the west and north-west of these Islands during day, but little change occurring in the general distribution. Pressure increasing slowly within the anticyclonic region in the south-west.

Tuesday, 2nd May, 1911.

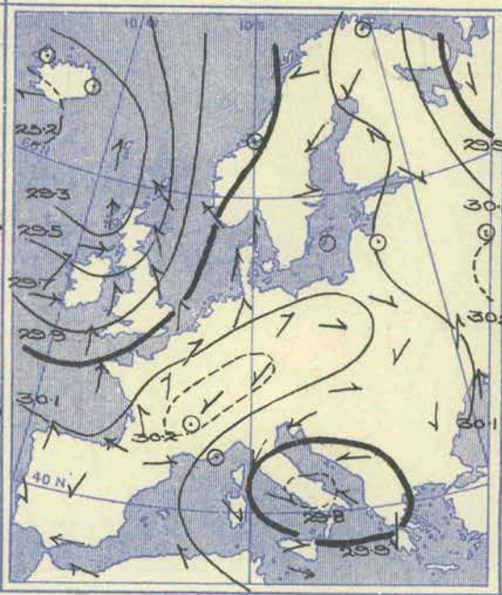
Temperature and Weather.

7 a.m.

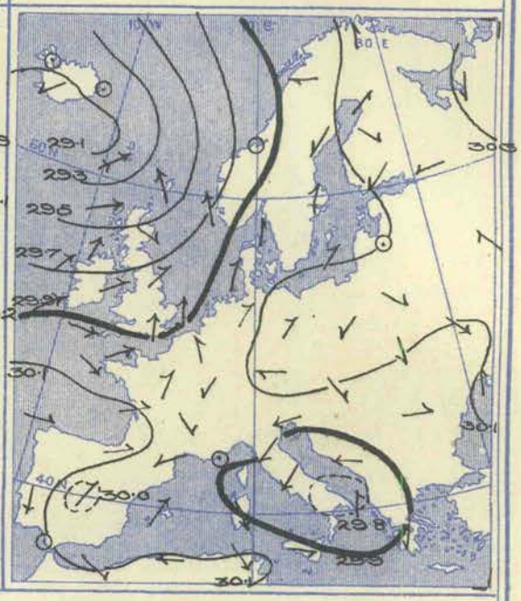


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or dull in most parts of these Islands and over a wide area in northern Europe, with rain in a few localities; fair to fine at most stations over the southern half of Europe and in Algeria, but rainy and unsettled in Italy and on the Adriatic. Rain experienced later very generally in the United Kingdom, as well as in various regions on the Continent; about 0·6 in. in the north-west of Ireland, at Lésina and Rome, and 1·5 in. at Tunis.

Temperature risen in Great Britain, changed rather irregularly elsewhere. Morning readings below 40° in the extreme north, about 50° at several of our own stations and in Brittany, and about 60° at various places on the shores of the Mediterranean. Rising to 55° or above during day in some British localities and in central Europe, to between 60° and 70° over the greater portion of France and Italy, to 77° at Barcelona, and to 81° at Bucharest. Maximum only 63° at Malta and 57° at Rome.

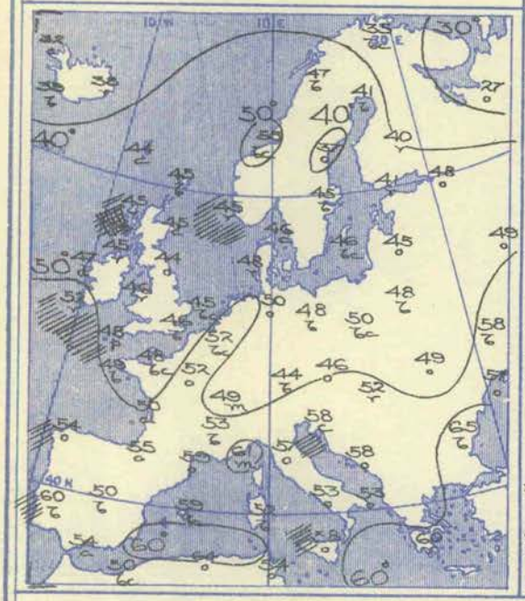
Wind in morning Westerly in the west of Ireland, Southerly over these Islands generally, high along the western coasts of Britain and also at Lerwick. A cyclonic circulation of light to fresh winds prevailing over Italy and its vicinity, and light, variable airs over central and northern Europe. Veering towards West later in these Islands and increasing in force in the south and east of England; blowing a strong gale at night on the north coast of Ireland. Increasing to a strong breeze from North-West or West on some shores of the Mediterranean.

Barometer in morning above 30·2 in. in central and eastern France and in Bavaria, and relatively high over all the central and south-western parts of our area, as well as over the southern half of Russia. Below 29·8 in. in a depression having its minimum over Italy, and below 29·3 in. in a larger system off the north-west of these Islands and the Icelandic region. Italian disturbance maintaining its position during day, that in the north-west moving eastward and a secondary travelling eastwards over the United Kingdom.

Wednesday, 3rd May, 1911.

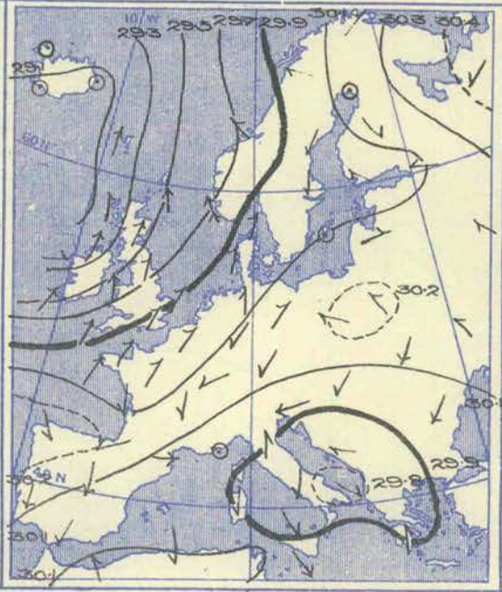
Temperature and Weather.

7 a.m.

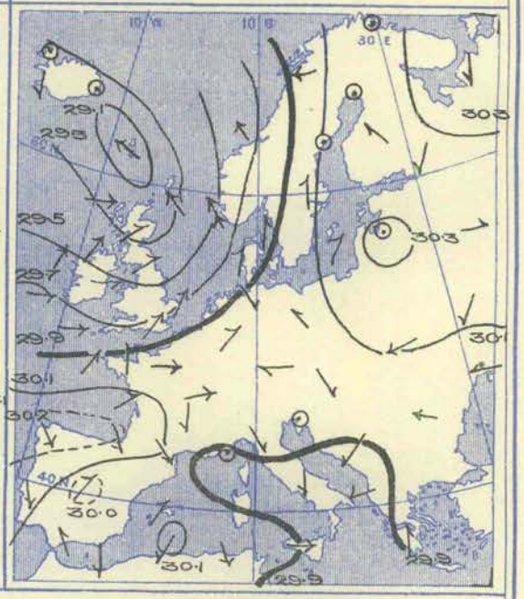


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in Ireland, Wales, and some parts of Scotland, as well as on the eastern shores of the North Sea, the Gulf of Finland, and at Buda-Pesth, Pesaro, and Athens. Cloudy or overcast in some other regions, but generally fair to fine. Rain experienced later very generally over this country and the adjacent regions of the Continent, as well as in Scandinavia, Russia, and the south of Italy. Amounts rather heavy in some Irish and Welsh districts and about 1·4 in. at Brindisi.

Temperature showing no decided or general change; fallen in most ports of these Islands. Readings in morning between 45° and 50° over a vast area including the United Kingdom and the greater portion of France and central Europe. Decreasing to below 30° in the extreme north of Russia, and increasing to about 60° at several stations in the south of our area. Maxima during day ranging between 50° and 57° in most parts of these Islands, but rather higher over the central regions of Europe, and above 70° in the south. Thermometer touching 77° at Bucharest and 79° at Madrid.

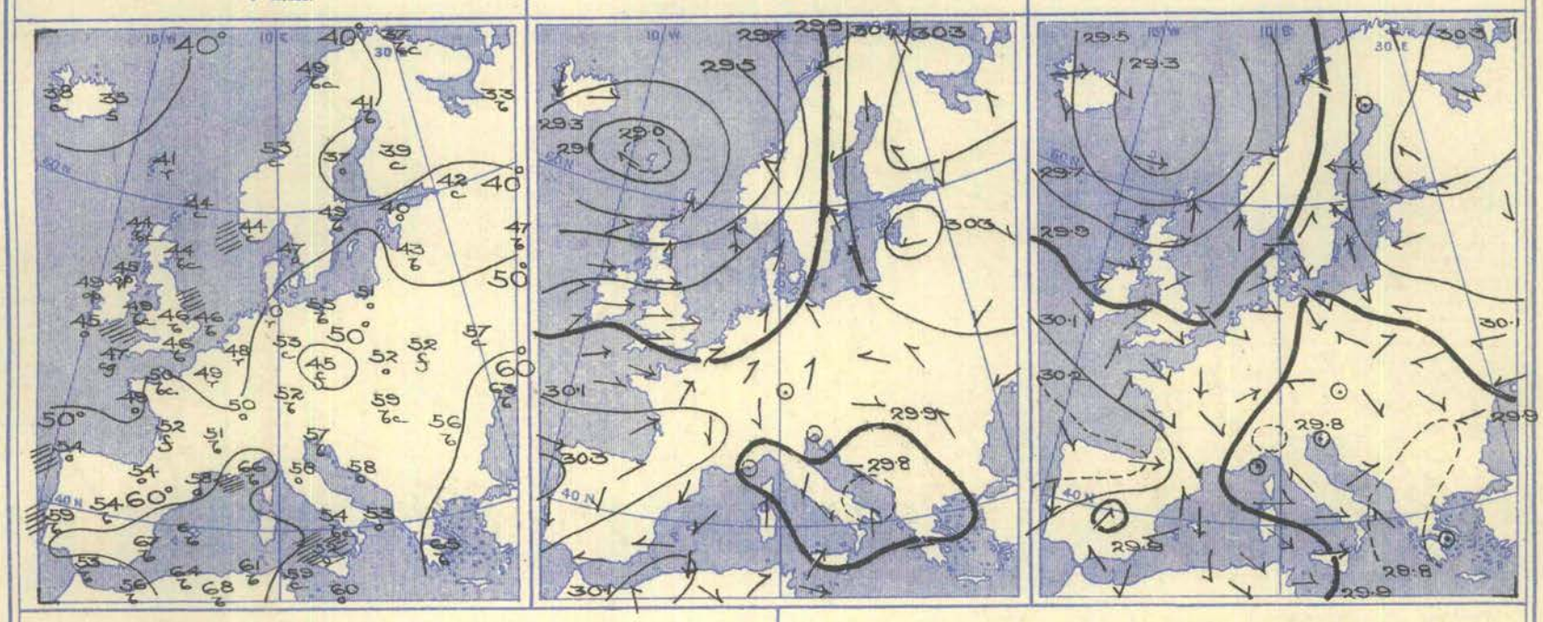
Wind in morning Southerly over these Islands and the North Sea, fresh or strong in many places, and blowing a gale at Skudesnaes. A cyclonic circulation, light to strong, shown over Italy, and light anticyclonic winds over a wide area in Russia, central, and south-western Europe. Increasing to a high wind or gale at some of our south-western and southern stations during day and from the South-Eastward in Shetland. Veering to the Westward over these Islands generally. Gale continuing all day in the south-west of Norway.

Barometer in morning above 30·4 in. in the north-east of Russia, nearly as high at the Azores, and above 30·2 in. in Poland. Below 29·1 in. in a large depression on the Atlantic beyond the north-west of Scotland, and below 29·8 in. in a shallow depression centred over Italy. Northern depression moving eastward during day and a secondary passing in the same direction over the United Kingdom. Little modification occurring in the general distribution.

Thursday, 4th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine and bright over the major portion of our area, but rainy in the Netherlands, Jutland, and the south of Norway, as well as at Paris, and overcast in some other localities. Some slight showers falling later in the west and north of these Islands and some rather heavy rains in the east and south-east of France and in southern Italy.

Temperature changed rather irregularly and slightly. Morning readings above 60° at several stations in the south and south-east of Europe but below over these Islands and a large portion of France, and below 40° in the extreme north of the Continent. Thermometer touching 60° at a few English stations during day and rising to 70° or above at many places in the south of our area, but only reaching 63° at Naples and 61° at Palermo. Highest readings, 77° at Lemberg and Hermanstadt, and 79° at Bucharest.

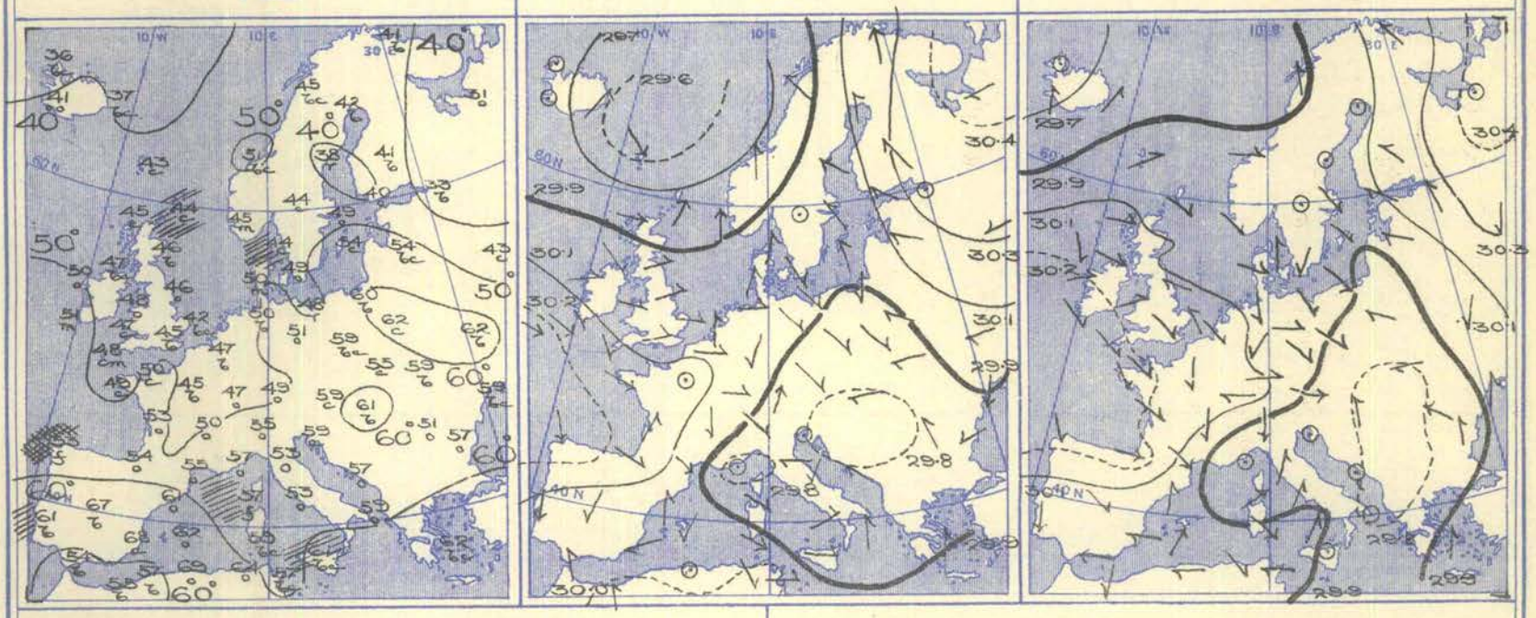
Wind in morning showing an extensive cyclonic movement affecting the whole of north-western Europe; Westerly current light to fresh on our coasts, but that from South blowing a gale on the south-west coast of Norway. Another cyclonic circulation prevailing over the south-eastern countries. No general change later in day, but wind increasing to a gale from East or South-East over the north of Scandinavia.

Barometer in morning ranging from above 30·4 in. in the Azores region and above 30·3 in. in the north of Russia to below 29·8 in. in a depression of little depth centred over the Adriatic, and to below 29·0 in. in a larger and deeper system having its minimum near Thorshavn. Northern depression becoming less deep during day, and south-western high-pressure system extending north-eastwards and northwards towards these Islands.

Friday, 5th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine in most regions, but very cloudy or overcast in some districts, with rain at Bilbao, Cassel, Swinemünde, and Hernösand. Some rain later in various parts of central Europe, Italy, Russia, and Scandinavia, and very slight amounts at a few of our own northern and western stations.

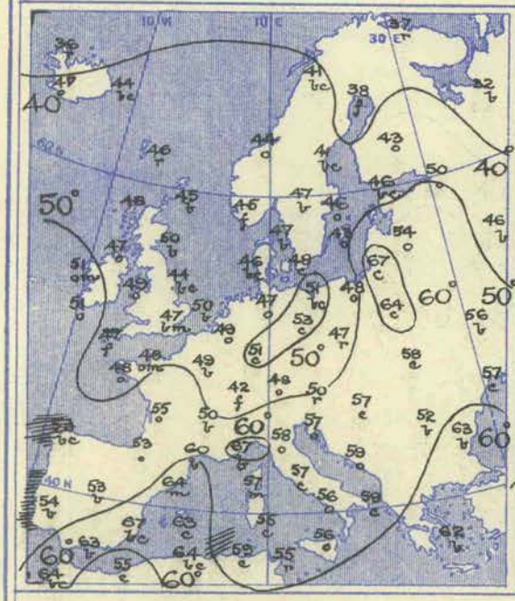
Temperature showing no great change, fallen somewhat in France and Germany. Morning readings ranging from 69° at Algiers and 67° at Madrid to below 50° over most of the United Kingdom, the Netherlands, and northern Europe, to 33° at St. Petersburg, and 31° at Archangel. Rising subsequently to about 60° in the south and south-east of England and in many parts of France and Germany and to 70° or above over a large area in the south. Thermometer touching or exceeding 80° in some Spanish localities. Slight frost at night in the north-east of Scotland.

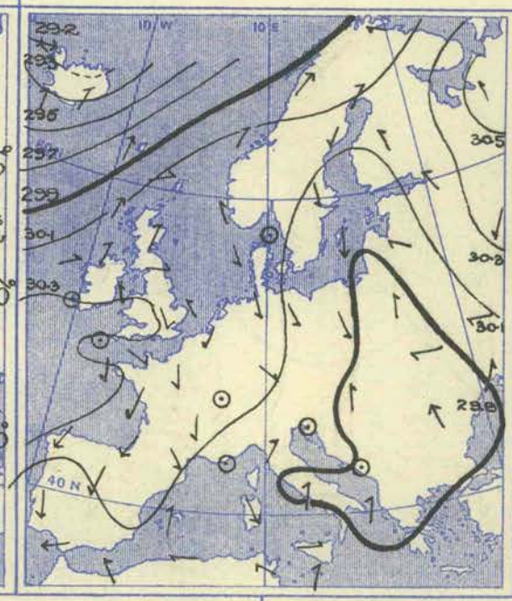
Wind in morning light or moderate in force in nearly all parts of our area; between North-West and South-West in these Islands and South-East and South over Scandinavia. Some cyclonic circulations prevailing over the southern regions. No change of importance later in day.

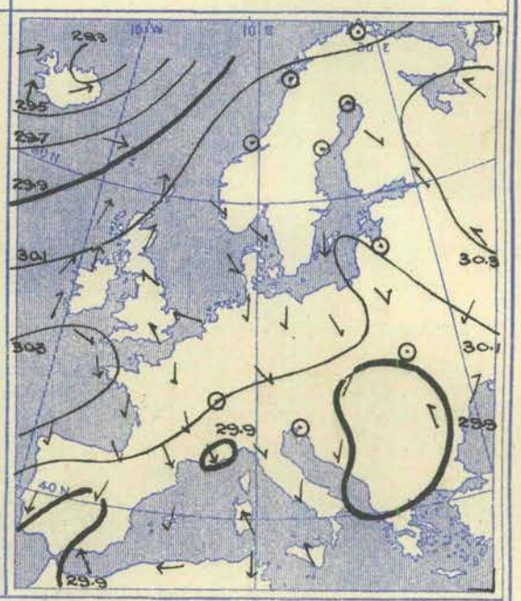
Barometer in morning above 30·4 in. over the White Sea and also at the Azores; below 29·8 in. in a shallow depression over the Gulf of Genoa and in a larger system over Hungary and its vicinity, and below 29·6 in. in another between Norway and Iceland. Northern depression travelling away during day, but another beginning to encroach on Iceland. Little modification occurring in the general distribution of pressure.

Saturday, 6th May, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning overcast in the north of Italy and a considerable area in Germany and Austria, with rain in places; fair to very fine in almost all other regions, but dull on our western and north-western coasts and foggy on the south-west coast of England. Some rain later in Ireland and the north-east and north-west of Scotland, and also in Italy and central and northern Europe; an inch at Buda-Pesth and 1·2 in. at Kuopio.

Temperature changed rather irregularly. Morning readings ranging from above 60° at some stations in the Mediterranean region and also at Warsaw and Memel to below 50° in most parts of these Islands, the Netherlands and northern France, to below 40° in the far north of Scandinavia, and to 32° at Archangel. Maxima during day a little above 60° in a few parts of these Islands and in the north-east of France; above 70° at Memel and over a large area in southern and central Europe and in Algeria, and about 80° in the south of Spain and Portugal.

Wind in morning light and mainly anticyclonic over the United Kingdom and France, cyclonic, but not strong, in most other parts of our area, but Easterly current blowing a strong breeze at San Fernando, and that from the Westward strong to a gale in Iceland. Gale subsiding in Iceland by evening, but Southerly wind increasing in force in the Hebrides and Shetland.

Barometer in morning above 30·5 in. in the north-east of Russia and above 30·3 in. in a large high pressure system extending from the Azores to central England. Below 29·9 in. in a large depression of irregular shape covering Poland and extending to Turkey and Italy, and below 29·2 in. in the north of Iceland. Relatively low in Morocco and the adjacent portion of Spain. No great change occurring during day in the general distribution of pressure. Barometer falling somewhat in Russia and also in the United Kingdom. Icelandic depression travelling away in a north-easterly direction.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
1	1911. May 1st, 4.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	 280°. 5		 260°, 7	 260°, 13				Metres. 1,000	One theodolite. No low clouds. Some ci. 1·5 m.p.s. assumed rate of ascent.
2	May 4th, 10.50 a.m.—Noon.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285° 60% 270°, 6	283·5° 60% 270°, 9	281° 65% 270°, 9					278·5° 70% 290°, 8 800	Cumulus. Convection currents. Wind dropping.
3	May 4th, 11.30 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	283·5° 83% 250·5°, 8·9	283° 83% 250°, 10	280·3° 66% 270°, 8·9						Clear sky, with occasional patches of Fr. Cu.
4	May 4th, 11.35 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	 260°, 4		280°, 6	290°, 6	275°, 7			1,500	Two theodolites. Detached cu. Balloon lost in cu.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites..	—	2	1	—
Area of Surface (sq. metres) ..	—	15	7	—
Capacity of Balloon (cub. metres)	·013	—	—	·052
Length of Wire (metres)	—	900	800	—

South Kensington, London, S.W. *May 9th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

153

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 19. NINETEENTH WEEK, SUNDAY, MAY 7TH, TO SATURDAY, MAY 13TH, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather after being fair to bright very generally during the greater part of the week, became changeable and thundery, at first in the south, and finally in the north also. The thunderstorms began at some south-western stations late on the 10th, and were more general on the following days. Several localities, however, experienced neither rain nor thunder.

Temperature was considerably above the average, the excess amounting in several districts to more than 5°, and in Scotland W. to more than 6°. The highest of the maxima, which were recorded during the latter half of the week, ranged from 76° in Scotland W. and 75° in Scotland N., England E. and S.E. to 71° in Scotland E. The maxima on the east and north-east coasts of England were much lower than those over the Kingdom generally. The lowest of the minima, were registered very early in the week at most stations, and ranged from 33° in the Midland Counties and England E. and S.E., to 40° in Scotland W. and Ireland S., and to 43° in the English Channel. The lowest readings on the grass were 27° at Kew and Rauceby, 28° at Greenwich, Tunbridge Wells and Wisley, and 29° at Clacton-on-Sea and Markree.

Mean Temperature of the Sea. At nearly all stations the water was warmer than during the corresponding week of last year, the difference being considerable in several places. The means for the week ranged from 56° at Seafield, and 53° at Teelin, Scilly, Eastbourne and Margate, to 45° at Burnmouth and Aberdeen.

Rainfall varied very greatly in different parts of the Kingdom. In Scotland and Ireland S. it slightly exceeded the normal, but in other districts it was low. As much as 1·12 in. occurred at Shaftesbury, with thunder and lightning on the 10th, and some other falls of more than an inch were experienced with the thunderstorms of the 13th. At York and Rothamsted there was more than 1·2 in., at Killarney 1·4 in., and at Newton Rigg and Burnley 1·7 in. At a few stations in eastern and central England, as well as at Hawarden Bridge and Scilly, there was no rain.

Bright Sunshine was just equal to the average in the Midland Counties and Ireland S., above it elsewhere. The percentage of the possible duration ranged from 65 in England S.E., 64 in the English Channel and 61 in England E. to 42 in England N.E. and Ireland S.

Barometer and Wind. During the early days of the week these islands were under the influence of an anticyclone, secondary to a large system over Russia, and the winds were mainly South-Westerly. By Wednesday, however, the central portion of the high pressure system had travelled away to the north of Scandinavia, and a large, shallow depression had begun to extend over this country from the southward, causing a shift of wind to North-East or East. This disturbance continued to move northward, and by the end of the period covered nearly the whole of the United Kingdom and its vicinity.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 156.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light
	Sunshine ...	Abundant	Abundant	Moderate	Abundant	Moderate	Very abundant	Moderate	Moderate	Abundant	Abundant	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 10 weeks from Mar. 5th, 1911.	Warmth ...	**2** * 1	**3** * 2	**4** * 1	**3** * 1	**3** * 1	**1** * 1	**2** * 3	**2** * 2	**1** * 2	**1** * 1	**3** * 3	**1** * 2
	Rainfall ...	**4** * 4	**3** * 3	**2** * 6	**2** * 2	**2** * 4	**3** * 2	**3** * 5	**3** * 4	**5** * 4	**3** * 5	**4** * 3	**3** * 3
	Sunshine ...	**5** * 3	**2** * 4	**0** * 4	**1** * 2	**0** * 4	**3** * 3	**2** * 3	**2** * 2	**2** * 3	**4** * 4	**3** * 3	**2** * 4

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINETEENTH WEEK—May 7th to May 13th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	75	38	58·5	43·9	50·7	+ 4·1	61	+ 19	0	− 7	2	− 2	0·69	+0·03	53	+ 15	47	+14
Eastern																		
1. SCOTLAND, EAST	71	36	59·0	43·0	50·5	+ 3·5	60	+ 13	0	− 8	3	0	0·52	+0·05	48	+ 7	43	+ 6
2. ENGLAND, N.E.	72	36	60·7	45·1	52·4	+ 4·7	73	+ 28	0	− 4	2	− 1	0·28	−0·14	46	+ 2	42	+ 2
3. ENGLAND, EAST	75	33	64·4	44·9	54·1	+ 4·6	85	+ 27	0	− 4	2	− 1	0·33	−0·06	64	+ 18	61	+17
4. MIDLAND COUNTIES	74	33	66·0	45·0	54·9	+ 5·5	90	+ 30	0	− 5	1	− 2	0·14	−0·27	42	0	39	0
5. ENGLAND, S.E.	75	33	66·3	45·9	55·5	+ 4·7	95	+ 31	0	− 2	2	− 1	0·24	−0·10	68	+ 21	65	+20
Western																		
6. SCOTLAND, WEST	76	40	63·5	46·9	54·7	+ 6·2	89	+ 36	0	− 3	3	− 1	0·80	+0·15	47	+ 4	43	+ 4
7. ENGLAND, N.W.	72	39	63·8	46·7	54·7	+ 5·6	89	+ 36	0	− 2	2	− 1	0·42	−0·07	47	+ 3	44	+ 3
8. ENGLAND, S.W.	74	36	64·6	47·4	55·5	+ 5·3	95	+ 35	0	− 1	2	0	0·38	−0·08	60	+ 13	57	+12
9 IRELAND, NORTH	74	35	61·6	46·5	53·6	+ 4·6	81	+ 28	0	− 2	3	− 1	0·38	−0·17	52	+ 10	48	+10
10. IRELAND, SOUTH	74	40	63·9	48·4	55·7	+ 5·2	96	+ 35	0	− 1	4	+ 1	0·58	+0·05	45	0	42	0
11. ENGLISH CHANNEL	73	43	63·0	48·1	55·1	+ 3·3	92	+ 24	0	0	2	− 1	0·05	−0·30	66	+ 9	64	+ 8

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 10 Weeks, March 5th to May 13th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	75	22	*	*	*	*	221	− 9	196	−17	39	− 7	7·83	−0·30	301	+12	32	+ 1
Eastern																		
1. SCOTLAND, EAST	71	17	*	*	*	*	247	− 38	203	−27	43	+ 5	4·43	−0·35	284	−30	30	− 3
2. ENGLAND, N.E.	72	26	*	*	*	*	282	− 3	150	−20	37	+ 2	3·01	−0·87	284	−57	31	− 6
3. ENGLAND, EAST	75	22	*	*	*	*	351	− 19	156	−22	33	0	3·75	+0·13	345	− 7	37	− 1
4. MIDLAND COUNTIES	74	22	*	*	*	*	343	− 40	171	−19	30	− 2	3·04	−0·99	276	−43	30	− 5
5. ENGLAND, S.E.	75	24	*	*	*	*	358	− 37	134	+13	32	+ 1	4·38	+0·53	362	+10	39	+ 1
Western																		
6. SCOTLAND, WEST	76	20	*	*	*	*	308	+ 7	165	+ 8	33	− 6	6·58	−0·48	302	−26	32	− 3
7. ENGLAND, N.W.	72	26	*	*	*	*	318	+ 4	130	− 3	32	− 4	4·60	−0·50	310	− 8	34	− 1
8. ENGLAND, S.W.	74	22	*	*	*	*	346	− 31	124	+24	33	− 2	6·19	+0·58	346	−11	38	− 1
9. IRELAND, NORTH	74	22	*	*	*	*	320	− 10	134	+ 8	34	− 8	4·66	−1·14	317	+ 7	34	+ 1
10. IRELAND, SOUTH	74	23	*	*	*	*	409	+ 9	124	+31	42	+ 4	6·45	+0·18	330§	−15	36	− 2
11. ENGLISH CHANNEL	73	28	*	*	*	*	422	− 20	54	+24	42	+ 5	5·28	+0·66	396	−30	43	− 3

THE YEAR.—Aggregates, &c., for the Period of 19 Weeks, January 1st to May 13th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	75	14	*	*	*	*	310	+ 20	415	−128	85	− 7	20·24	+1·15	387	+ 10	27	+ 1
Eastern																		
1. SCOTLAND, EAST	71	11	*	*	*	*	332	− 21	487	−120	77	+ 4	8·76	−1·01	427	− 11	29	− 1
2. ENGLAND, N.E.	72	19	*	*	*	*	406	+ 41	371	−100	65	− 3	5·52	−1·75	418	− 50	28	− 3
3. ENGLAND, EAST	75	16	*	*	*	*	463	+ 3	409	−108	69	+ 2	7·01	+0·02	492	+ 1	33	0
4. MIDLAND COUNTIES	74	14	*	*	*	*	465	− 22	415	−111	57	− 8	5·61	−2·60	405	− 34	27	− 2
5. ENGLAND, S.E.	75	16	*	*	*	*	461	− 52	361	− 19	61	− 2	7·50	−0·80	514	+ 28	35	+ 2
Western																		
6. SCOTLAND, WEST	76	18	*	*	*	*	431	+ 41	347	− 72	73	− 6	15·97	+0·06	412	− 22	28	− 2
7. ENGLAND, N.W.	72	17	*	*	*	*	429	+ 21	314	− 70	64	− 8	9·89	−0·88	436	+ 5	30	0
8. ENGLAND, S.W.	74	13	*	*	*	*	459	− 69	297	− 2	66	− 5	11·16	−1·45	488	− 5	33	0
9. IRELAND, NORTH	74	18	*	*	*	*	473	+ 18	302	− 41	71	−13	10·06	−2·27	449	+ 21	31	+ 1
10. IRELAND, SOUTH	74	18	*	*	*	*	598	+ 12	295	+ 37	79	+ 3	11·39	−2·43	469§	− 11	32	− 1
11. ENGLISH CHANNEL	73	28	*	*	*	*	610	− 51	135	+ 26	75	− 3	8·75	−1·78	554	− 41	37	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for Report No. 18 slightly altered owing to the receipt of further information.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.
The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	64	12th	40	10th, 11th	55·8	42·7	48·9	—	48	0	2	0·33	—	63·3	—	55	—	Baltasound.
	a Lerwick	61	11th	41	10th, 11th	53·9	44·1	48·7	+ 4·6	47	0	1	0·22	—	61·2	+21·9	54	+19	Deerness.
	a Stornoway	66	11th	41	9th	58·3	44·1	50·8	+ 4·9	62	0	1	0·44	− 0·14	64·9	+23·4	58	+21	Stornoway.
	a Castlebay, Barra Isd.	69	11th	45	9th	60·0	48·6	54·0	+ 4·8	84	0	2	0·20	—	74·1	—	67	—	Castlebay.
	a Wick	58	8, 11, 12th	38	9th	55·1	41·7	48·0	+ 2·0	43	1	3	0·70	+ 0·25	*	*	*	*	*
b, Mainland.	p Strathpeffer	68	12th	40	9th	60·4	44·3	51·9	+ 5·1	69	0	3	0·22	− 0·22	47·7	+10·2	43	+ 9	Strathpeffer.
	p Glencarron	72	12th	38	9th	61·6	43·3	51·9	+ 6·2	69	0	3	0·97	− 0·11	*	*	*	*	*
	p Fort Augustus S	59	12th	38	9th	55·0	44·2	49·3	+ 2·6	51	0	3	0·76	+ 0·23	37·8	+ 8·1	34	+ 7	Fort Augustus.
	p Fort William S	75	11th	41	9th	65·0	45·3	54·6	+ 6·4	88	0	3	1·50	+ 0·65	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	69	11th	37	9th	60·4	40·9	50·1	+ 2·8	61	3	3	0·92	+ 0·52	48·0	—	43	—	Gordon Castle.
	a Nairn	61	8th	36	9th	56·0	42·1	48·6	+ 1·3	46	0	3	0·68	+ 0·31	43·1	—	39	—	Nairn.
	a Aberdeen	61	8th, 12th	41	10th	57·4	45·4	51·0	+ 4·5	63	0	4	0·69	+ 0·20	52·3	+11·3	47	+10	Aberdeen.
	a Balmoral S	68	11th, 12th	37	12th	62·6	40·0	50·6	+ 6·3	69	6	2	0·41	− 0·11	46·6	—	42	—	Crathes S.
	p Crieff S	71	12th	40	10th	63·2	43·7	52·9	+ 4·6	76	0	4	0·30	− 0·23	53·3	—	49	—	Balruddery.
	a Leith	59	7th	43	7th, 10th	55·7	45·3	50·2	+ 2·0	57	0	3	0·25	− 0·10	*	*	*	*	*
	p West Linton S	62	11th	38	10th	56·3	43·3	49·4	+ 4·2	52	0	3	0·57	—	38·4	—	35	—	West Linton.
	p Marchmont S	67	10th	39	10th	60·1	43·4	51·3	+ 5·1	65	0	3	0·30	− 0·24	43·1	+ 4·6	40	+ 4	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	65	7th	43	10th	60·2	45·7	52·5	+ 5·6	74	0	3	0·08	− 0·40	51·0	—	47	—	Cockle Park.
	a Shields	62	7th	41	7th	56·7	44·3	50·1	+ 2·9	57	0	4	0·25	− 0·12	31·0	0·0	28	0	Newcastle.
	p Durham	62	8th, 13th	42	7th	59·2	45·0	51·7	+ 4·5	68	0	2	0·05	− 0·35	33·0	− 3·7	31	− 3	Durham.
	p Rounton M	64	8th	42	7th	58·2	45·1	51·3	+ 4·5	65	0	2	0·15	− 0·22	*	*	*	*	*
	p Scarborough M	64	7th	44	9th	58·0	46·7	52·0	+ 4·2	70	0	2	0·26	− 0·14	40·1	—	37	—	Scarborough.
	p York	69	13th	43	8th	65·6	45·4	54·9	+ 5·3	90	0	3	1·64	+ 1·21	34·8	− 3·2	32	− 3	York.
b, South.	a Spurn Head	60	7th	42	9th, 10th	56·1	45·0	50·2	+ 1·7	57	0	0	0·00	− 0·32	*	*	*	*	*
	a Lincoln	68	13th	41	9th	64·8	44·9	54·3	+ 4·3	86	0	1	0·06	− 0·34	60·9	—	57	—	Skegness.
	a Fulbeck	72	11th	36	8th	67·4	43·6	54·8	+ 5·3	90	0	0	0·00	− 0·41	53·8	—	52	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	65	7th, 8th	41	7th	59·9	45·0	52·0	+ 3·8	70	0	3	0·07	—	80·7	—	76	—	Lowestoft.
	p Hillington M	70	13th	40	7th	65·4	44·2	54·2	+ 4·7	85	0	2	0·11	− 0·29	64·5	—	60	—	Cromer.
	a Yarmouth	59	13th	41	8th	55·6	47·1	51·1	+ 2·7	64	0	0	0·00	− 0·38	64·1	+20·2	60	+19	Hillington.
	a Norwich	70	12th, 13th	38	8th	66·6	44·8	55·1	+ 6·1	92	0	1	0·76	—	71·8	—	68	—	Yarmouth.
	p Geldeston	73	13th	33	8th	64·4	43·9	53·5	+ 4·1	81	0	0	0·00	− 0·39	*	*	*	*	*
	p Cambridge	72	10, 11, 12, 13	35	7th	69·7	43·3	55·7	+ 5·2	96	0	3	0·03	− 0·36	70·1	+23·6	66	+22	Geldeston.
b, South.	a Felixstowe	64	10th	39	8th	59·4	45·4	52·0	+ 2·5	70	0	2	0·14	—	57·8	+14·0	55	+13	Cambridge.
	a Clacton-on-Sea	66	10th	38	8th	61·1	46·1	53·2	+ 4·1	78	0	1	0·04	—	89·7	—	85	—	Felixstowe.
	a Rothamsted	72	10th, 11th	35	7th	67·9	43·3	54·9	+ 5·4	90	0	3	1·50	+ 1·08	81·2	—	77	—	Clacton.
	a Shoeburyness	67	13th	37	8th	62·1	43·9	52·5	+ 1·0	74	0	1	0·28	+ 0·02	52·5	+10·6	50	+10	Rothamsted.
	p Tottenham	75	10th	39	7th	68·8	46·2	56·8	+ 6·1	104	0	3	0·45	—	73·6	—	70	—	Southend.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	63	11th	40	9th	60·5	44·7	52·1	+ 4·6	71	0	2	0·09	− 0·39	50·9	—	49	—	Tottenham.
	a Bawtry	71	11th	33	9th	66·9	47·0	56·4	+ 6·9	101	0	1	0·03	− 0·36	32·1	—	30	—	Harrogate.
	p Buxton M	67	11th	37	9th	62·9	45·5	53·7	+ 7·7	82	0	0	0·00	− 0·68	39·7	+ 3·1	37	+ 3	Worksop.
	a Nottingham	68	11th	34	9th	64·1	44·6	53·8	+ 4·3	83	0	0	0·00	− 0·39	53·1	—	50	—	Buxton.
	p Birmingham, Edgbsn	71	11th	43	9th	65·4	46·5	55·4	+ 6·0	94	0	0	0·00	− 0·45	41·0	—	38	—	Nottingham.
	a Raunds M	73	13th	38	9th	68·2	43·7	55·2	+ 5·5	92	0	1	0·12	—	40·2	—	38	—	Birmingham.
b, West.	a Oxford	74	11th	40	9th	68·1	46·3	56·6	+ 6·1	102	0	2	0·78	+ 0·40	*	*	*	*	*
	a Cheadle M	71	12th	39	8th, 10th	63·4	43·6	52·9	+ 4·7	76	0	0	0·00	− 0·46	43·6	+ 1·6	41	+ 2	Oxford.
	p Shrewsbury	73	11th	37	13th	67·4	42·6	54·3	+ 4·1	86	0	0	0·00	—	33·1	—	31	—	Sheffield.
	a Hereford M	72	11th	36	9th	66·0	46·3	55·6	+ 5·1	95	0	2	0·23	− 0·22	*	*	*	*	*
	a Cirencester	72	11th, 12th	37	8th	67·6	43·6	54·9	+ 5·8	90	0	2	0·11	− 0·34	*	*	*	*	*
	a Bath	72	10th, 11th	40	8th, 9th	68·0	46·6	56·7	+ 5·9	103	0	3	0·15	− 0·29	44·3	+ 0·2	42	0	Cirencester.
5. ENGLAND, S.E.	p Kew	73	10th	37	7th	68·5	46·5	56·8	+ 5·9	104	0	3	0·62	+ 0·26	59·3	—	57	—	Bath.
	a Marlborough	72	11th	33	9th	67·1	41·6	53·6	+ 4·7	83	1	2	0·10	− 0·33	80·7	—	77	—	Ramsgate.
	a Margate	75	13th	41	7th	61·2	46·3	53·3	+ 3·2	79	0	1	0·35	+ 0·02	53·8	+10·9	51	+10	Kew.
	a Wisley, Surrey	74	10th	36	7th	69·0	44·8	56·2	+ 5·1	99	0	2	0·08	—	71·6	+29·1	68	+28	Marlborough.
	a Swarraton M	73	10th	36	7th	68·0	43·8	55·2	+ 6·0	92	0	3	0·32	− 0·13	41·8	+ 2·0	40	+ 2	Margate.
	a Tunbridge Wells M	73	13th	38	7th	68·2	45·0	55·9	+ 6·0	97	0	2	0·20	− 0·20	79·0	—	75	—	Wisley.
	a Dungeness	66	11th, 12th	36	7th	62·1	45·6	53·4	+ 3·5	80	0	2	0·18	− 0·19	77·7	+33·1	74	+32	Worthing.
	p Hastings	71	10th	42	7th	65·5	48·2	56·3	+ 5·8	100	0	2	0·17	− 0·19	75·4	—	72	—	Tunbridge Wells.
	p Southampton	73	10th	44	8th	67·6	48·1	57·3	+ 5·0	107	0	3	0·25	− 0·19	82·7	+32·7	79	+31	Littlestone.
	a Ventnor	70	10th	42	7th	65·7	49·2	57·0	+ 5·5	105	0	1	0·11	− 0·26	61·4	+14·7	59	+14	Hastings.
LONDON	a Westminster	74	10th	40	7th	69·4	47·9	58·0	+ 6·6	112	0	3	0·40	+ 0·04	78·9	+29·1	75	+28	Southampton.
	a Greenwich	76	10, 11, 13th	37	7th	71·4	44·9	57·4	+ 6·0	108	0	2	0·36	+ 0·01	78·5	+29·0	75	+28	Ventnor.
															62·7	+22·7	60	+22	Westminster.
																			Greenwich.
6. a, SCOTLAND. W.	a Poltalloch S	76	12th	42	10th	64·6	47·1	55·3	+ 6·6	93	0	2	1·31	+ 0·71	*	*	*	*	*
	p Glasgow	68	12th	43	10th	61·4	46·9	53·7	+ 5·1	82	0	3	0·35	− 0·19	40·7	+ 5·5	37	+ 5	Glasgow.
	p Rothesay S	73	12th	44	8th, 9th	63·9	46·9	54·9	+ 6·2	90	0	3	1·12	+ 0·47	*	*	*	*	*
	a Kilmarnock	70	11th	42	10th	63·1	45·9	54·0	+ 5·5	84	0	3	0·61	—	37·5	—	34	—	Kilmarnock.
	a Colmonell	76	11th	43	11th	66·3	46·9	56·0	+ 7·3	98	0	3	1·12	+ 0·55	*	*	*	*	*
	p Dumfries	73	11th	43	10th	63·7	46·9	54·8	+ 5·6	90	0	4	0·99	+ 0·44	44·4	—	41	—	Dumfries.
	p Cally, Gatehouse S	71	11th, 12th	40	7th	63·4	46·0	54·2	+ 5·6	85	0	4	0·65	− 0·05	*	*	*	*	*
b, ISLE OF MAN	p Douglas	70	11th	46	8th, 9th	61·3	48·8	54·7	+ 6·3	89	0	3	0·24	− 0·34	53·5	+ 4·5	50	+ 4	Douglas.
7. a, ENGLAND, N.W.	p Aspatria	70	11th	41	10th	62·9	45·5	53·7	+ 5·9	82	0	4	0·64	+ 0·09	47·2	—	44	—	Hoylake.
	p Newton Rigg	69	12th	39	9th	64·5	42·7	53·0	+ 5·8	77	0	3	1·72	+ 1·19	46·8	—	43	—	Aspatria.
	p Stonyhurst	68	11th	44	7th	63·5	47·7	55·1	+ 6·7	92	0	2	0·41	− 0·22	42·0	− 0·2	39	0	Newton Rigg.
	p Blackpool M	71	11th	42	10th	63·9	45·8	54·3	+ 5·2	86	0	2	0·41	− 0·22	41·1	− 0·6	38	− 1	Stonyhurst.
	p M'nch'ster, Prestwich	69	11th, 13th	43	7th	63·9	47·2	55·1	+ 6·5	92	0	2	0·02	− 0·45	53·9	+10·7	50	+10	Blackpool.
	a Liverpool (Bidston)	71	11th	47	7th, 9th	66·3	48·6	56·9	+ 7·4	104	0	1	0·32	− 0·23	34·5	− 1·9	32	− 2	Prestwich.
	a Hawarden Bridge	72	11th	43	9th	67·0	46·8	56·3	+ 5·7	100	0	1	0·00	− 0·41	44·8	—	42	—	Liverpool.
b, NORTH WALES	p Llandudno M	65	11th	46	9th	61·7	49·1	55·0	+ 5·2	91	0	0	0·00	− 0·37	50·1	+ 4·3	46	+ 4	Southport.
	a Holyhead	63	9, 11, 13th	46	8th, 9th	59·4	48·1	53·4	+ 4·2	80	0	1	0·71	+ 0·29	54·9	—	51	—	Rhyl.
	p Bettws-y-Coed	72	11th	41	9th	65·1	45·3	54·6	+ 5·0	88	0	2	0·04	− 0·41	51·9	+ 8·1	49	+ 8	Llandudno.
8. a, SOUTH WALES	a Llangammarch Wells	70	10th, 11th	36	9th	65·9	44·9	54·8	+ 6·6	90	0	1	0·32	—	54·8	—	52	—	Aberdovey.
	a Pembroke	69	10th	42	7th	61·6	47·4	54·1	+ 4·8	85	0	3	0·97	—	41·1	—	38	—	Bettws-y-Coed.
	p Cardiff	70	10th	42	8th, 9th	66·0	46·9	55·9	+ 4·7	97	0	2	0·20	− 0·24	51·1	—	48	—	Aberystwyth.
b, ENGLAND, S.W.	a Clifton	74	10th, 11th	43	9th	68·7	47·9	57·7	+ 6·5	110	0	3	0·11	− 0·44	46·7	—	44	—	Llangammarch Wells.
	a Shaftesbury M	69	10th, 11th	42	9th	65·6	45·9	55·2	+ 6·0	92	0	3	0·36	− 0·14	68·4	+20·4	65	+19	Pembroke.
	a Arlington	70	10th, 12th	40	8th, 9th	66·1	46·7	55·8	+ 6·9	97	0	2	0·13	+ 0·66	51·1	+ 8·6	53	+ 8	Cardiff.
	a Cullompton M	72	10th	37	9th	68·8	45·8	56·6	+ 6·0	102	0	2	0·75	+ 0·11	65·4	+17·9	62	+17	Tenby.
	a Portland Bill	64	9th	47	8th, 9th	59·0	48·9	53·7	+ 3·3	82	0	2	0·27	− 0·22	53·1	+10·1	51	+10	Newquay.
	p Plymouth	70	12th	44	8th	65·2	50·1	57·2	+ 5·7	106	0	1	0·01	—	67·8	—	65	—	Cullompton.
	p Falmouth	64	12th	44	8th	59·4	49·5	54·2	+ 3·5	85	0	1	0·03	− 0·44	64·2	+16·7	62	+16	Weymouth.
9. IRELAND, N. — a, West.	a Malin Head	63	12th	44	8th	57·7	47·0	52·0	+ 3·9	70	0	1	0·01	− 0·49	70·0	+19·0	67	+18	Plymouth.
	a Blacksod Point	68	10th	41	8th	61·1	47·7	54·0	+ 4·4	84	0	1	0·07	− 0·40	70·6	—	67	—	Falmouth.
	p Markree Castle	74	12th	35	8th	65·9	44·9	54·8	+ 6·3	90	0	1	0·42	− 0·21	74·6	+25·9	71	+25	Salcombe.
	a Birr Castle	72	12th	42	10th	65·0	46·1	55·0	+ 5·6	91	0	3	0·28	− 0·32	*	*	*	*	*
b, East.	p Armagh	69	11th, 12th	42	10th	63·1	45·8	53·9	+ 5·4	83	0	3	0·07	− 0·44	*	*	*	*	*
	a Donaghadee	61	11th	45	10th	56·9	47·3	51·8	+ 3·2	69	0	4	0·46	− 0·08	57·9	+17·0	54	+16	Torquay.
10. IRELAND, S. — a, East.	p Dublin, City	67	11th	47	9th, 10th	61·6	49·6	55·2	+ 4·1	92	0	4	0·94	+ 0·44	45·7	+ 5·3	42	+ 5	Armagh.
	a Kilkenny	70	11th, 12th	42	9th	64·3	47·6	55·5	+ 6·0	95	0	3	0·54	+ 0·08	47·5	+ 1·7	44	+ 2	Phœnix Park.
	a Waterford	73	12th	46	9th	65·9	49·7	57·3	+ 7·3	107	0	3	0·21	− 0·29	*	*	*	*	*
	a Birr Castle	72	12th	42	10th	65·0	46·1	55·0	+ 5·6	91	0	3	0·09	− 0·43	*	*	*	*	*
b, West.	a Foynes	70	12th	44	9th	64·9	48·4	56·2	+ 5·7	99	0	3	0·07	− 0·44	53·1	+12·2	50	+11	Birr Castle.
	a Cahir M	73	12th	40	9th	64·9	47·3	55·6	+ 5·9	95	0	4	0·59	+ 0·07	*	*	*	*	*
	a Killarney	74	11th	45	9th	65·5	47·4	55·9	+ 6·0	97	0	3	0·29	—	*	*	*	*	*
	a Valencia	71	10th	47	11th	63·9	49·9	56·5	+ 5·8	102	0	6	2·63	+ 1·93	*	*	*	*	*
	a Roche's Point	64	11th	46	9th	59·0	49·6	54·0	+ 3·4	84	0	5	0·64	− 0·11	36·1	−10·3	34	−10	Valencia.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	63	12th	43	7th	59·0	46·9	52·6	+ 1·4	74	0	4	0·12	− 0·45	41·8	—	40	—	Ballinacurra.
	a Jersey, St. Aubins	78	12th	44	7th	67·1	49·1	57·6	+ 5·5	109	0	0	0·00	− 0·39	61·9	+11·4	60	+11	Scilly.
	a Guernsey	67	8th, 13th	44	7th	63·0	48·3	55·2	+ 3·6	92	0	4	0·10	− 0·36	68·8	+15·4	66	+15	St. Heliers.
												3	0·04	− 0·41	65·2	+12·2	66	+12	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 83·0 hrs.* (*+35·3 hrs.*), *79* % (*+34* %); *Bournemouth, 67·2 hrs., 64* %; *Bognor,* hrs., %.

For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	48·6	—
1. Aberdeen	—	—	—	45.2
1. Crathes	1	30	50·5	45·6
1. Balmoral	0	34	—	—
1. West Linton	—	—	—	—
1. Marchmont	?	?	50·3	—
2. Cockle Park	0	39	52·3	46·5
2. Durham	0	37	—	—
2. York	—	—	50·4	47·1
2. Hull	0	32	51·4	46·1
2. Lincoln	—	—	51·0	46·8
2. Rauceby	2	27	54·6	47·7
3. Norwich	0	32	—	—
3. Yarmouth	—	—	55·1	50·4
3. Lowestoft	0	35	54·1	49·2
3. Cambridge	0	32	54·0	49·7
3. Clacton-on-Sea	1	29	53·4	50·2
3. Southend	0	37	55·1	—
3. Tottenham	0	33	—	49·8
4. Harrogate	0	36	48·8	46·7
4. Huddersfield	0	35	51·5	45·2
4. Buxton	1	28	50·9	44·9
4. Sheffield	0	32	51·0	45·7
4. Nottingham	0	32	53·3	47·2
4. Birmingham	1	30	49·3	45·8
4. Oxford	0	—	—	—
4. Hereford	1	28	—	—
4. Cirencester	0	35	51·6	47·6
4. Bath	—	—	55·0	50·0
5. Margate	0	36	52·6	48·8
5. Greenwich	1	28	—	—
5. Westminster	0	35	—	—
5. Kew	1	27	53·1	48·7
5. Canterbury	1	29	52·7	49·7
5. Tunbridge Wells	1	28	55·0	—
5. Wisley	1	28	53·7	49·2
5. Worthing	0	37	56·1	49·9
5. Portsmouth	0	37	55·9	51·5
6. Glasgow	0	38	—	—
6. Rothesay	—	—	—	46·8
6. Colmonell	0	38	—	—
6. Dumfries	0	32	51·1	47·1
6. Douglas	0	42	—	—
7. Aspatria	0	36	51·6	46·4
7. Newton Rigg	0	38	49·3	45·3
7. Burnley	0	32	50·1	45·2
7. Southport	0	34	55·1	50·3
7. Manchester City	0	43	51·5	47·9
7. Bettws-y-Coed	0	39	51·7	47·6
8. Llangammarch Wells	0	33	51·6	46·4
8. Cardiff	0	36	54·3	48·3
8. Clifton	0	38	—	—
8. Plymouth	0	36	56·6	—
9. Armagh	0	34	52·8	48·5
9. Markree	1	29	54·0	48·4
10. Dublin, Trin. Coll.	0	34	53·3	49·7
11. Guernsey, Brooklyn	0	32	52·5	49·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	45	46·4
	Kirkwall	52	49	51·1
	Wick	47	46	46·3
SCOTLAND, E.	Cromarty	?	?	?
	Pennan Bay	48	45	46·6
	Aberdeen, Cove Bay	46	45	45·4
ENGLAND, N.E.	Burnmouth, Berwick	46	44	45·1
	Scarborough	48	46	47·0
ENGLAND, E.	Shipwash Lightship	52	48	50·1
	Margate‡	54	50	52·5
ENGLAND, S.E.	Eastbourne‡	54	51	52·7
SCOTLAND, W.	Lamlash	49	47	48·2
	Ballantrae	50	47	48·8
ENGLAND, N.W.	Port Erin	51	47	48·2
ENGLAND, S.W.	Newquay	52	49	50·9
	Scilly	55	51	52·5
	Plymouth‡	49	48	48·4
	Salcombe	50	49	49·5
IRELAND, N.W.	Sheephaven	51	50	50·7
	Teelin	59	50	53·4
IRELAND, S.W.	Cleggan	55	47	51·1
	Seafield	60	52	55.6
IRELAND, E.		—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

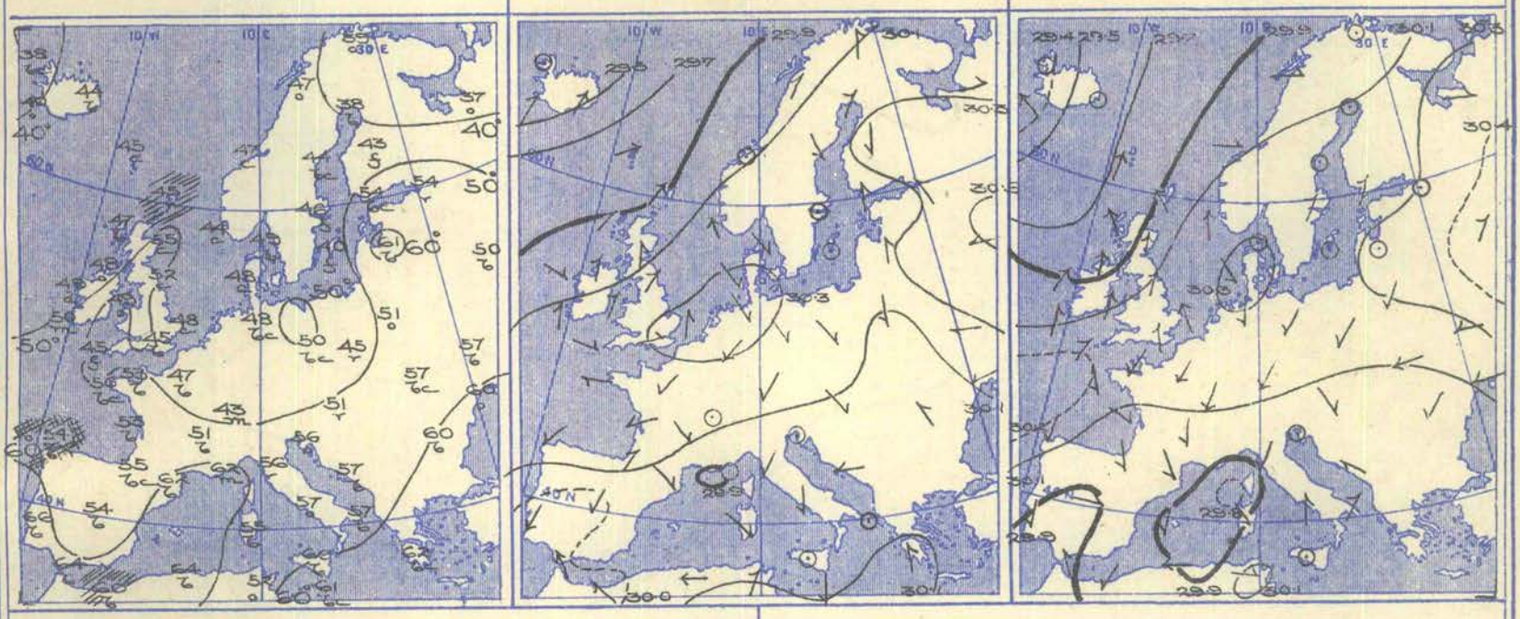
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 7th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in some parts of Ireland, Italy, Central Europe, Shetland, and at St. Petersburg, and overcast in some other localities but fair to bright generally. A little rain later in Ireland and the northern portion of Great Britain, and heavy falls in Austria, Poland, and the northern half of Italy; about 1·0 in. at Cracow and Pesaro and 1·6 in. at Florence.

Temperature risen in Scotland and Scandinavia, changed little elsewhere. Morning readings ranging from 67° at Barcelona, 66° at Lisbon, and above 60° at several other southern stations, and also at Memel to about 50° in many parts of these Islands, and over a vast area on the Continent, and to below 40° in the extreme north. Maxima during day above 60° in various parts of England, the north of France, and Germany, and above 70° at many stations in the south of our area; highest value, 79° at Madrid.

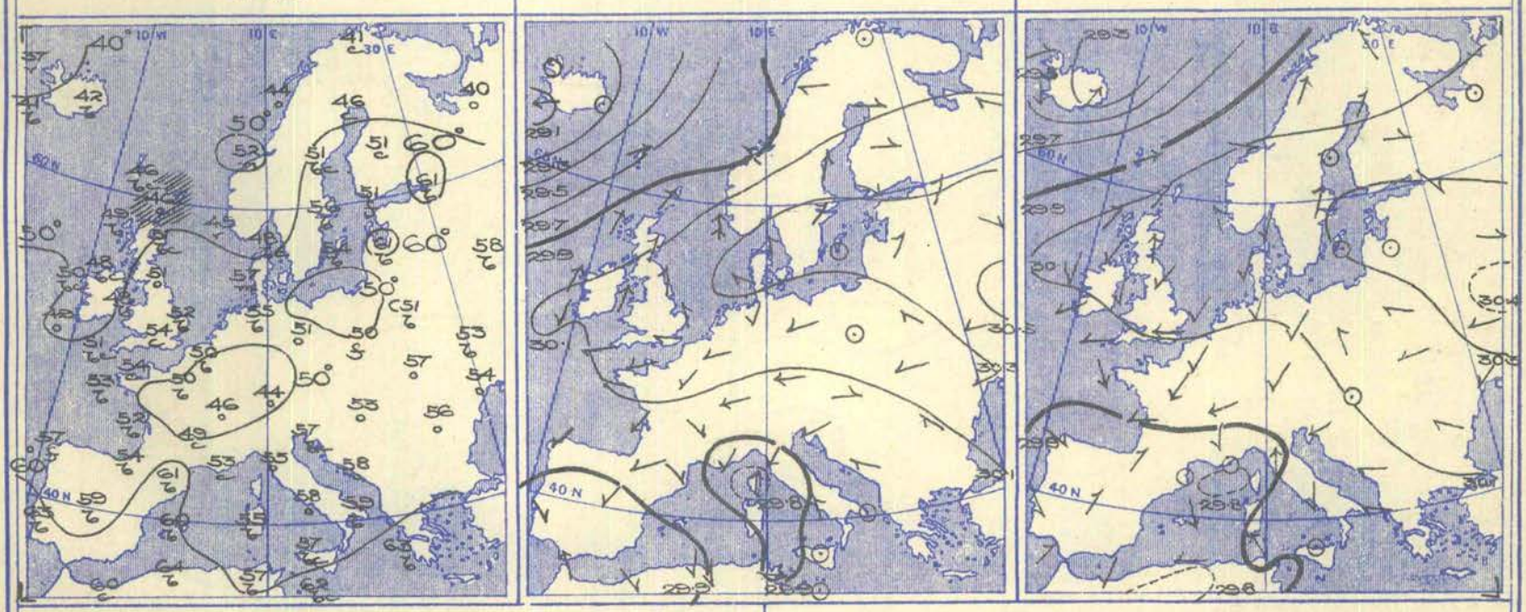
Wind in morning mainly anticyclonic and of little force in these Islands and their neighbourhood, Scandinavia, and Russia, cyclonic, light to moderate, elsewhere. Becoming cyclonic over the west and north of the United Kingdom by evening, and increasing to a fresh or strong breeze from the Southward on our north-west coasts. Not much change elsewhere, but blowing a strong breeze from East at San Fernando.

Barometer in morning above 30·5 in. in Central Russia and relatively high in an irregularly shaped area extending thence to the Azores and beyond. Below 30·0 in. in large depressions of little intensity in the south of our area, and below 29·5 in. in another over Iceland and in its vicinity. Southern depressions undergoing considerable modification in form and intensity during day. Pressure decreasing in Iceland, and a large shallow disturbance spreading over the western and northern districts of the United Kingdom.

Monday, 8th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in the north of Italy, at Roche's Point, Holyhead, and Skudesnæs, and overcast in many parts of Central Europe; fair to very fine in almost all other regions, but rain or snow falling in the north-west of Iceland. Heavy rain later over northern Italy, an inch at Turin and 1·9 in. at Leghorn. Considerable amounts in Austria-Hungary, and slight falls in the north-east of Scotland and in various parts of Ireland.

Temperature risen in Scandinavia, and Finland, showing no decided change elsewhere. Readings in morning above 60° at several places in the south of our area and also at Memel and St. Petersburg; about 50° at most of our own stations and over a very large portion of the Continent, but about 40° in the extreme north. Thermometer rising to between 60° and 65° during day over a large area in England and to above 70° at various places in southern Europe and East Prussia; highest readings, 77° at Memel, and 86° at Madrid. Maximum no higher than 49° at Turin.

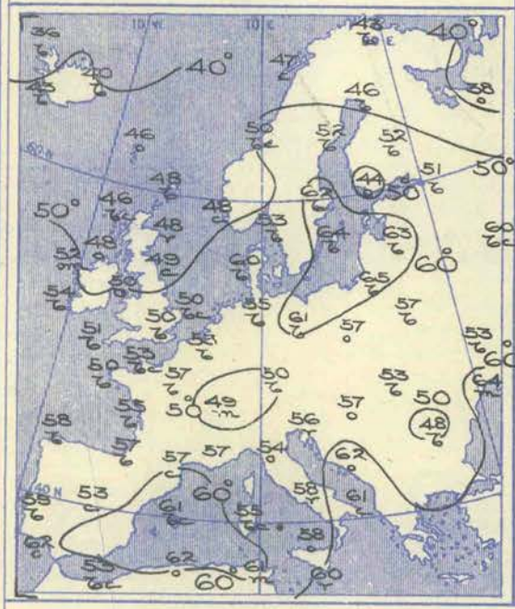
Wind in morning mainly anticyclonic except in the south and extreme north-west of our area; light or moderate generally, but Southerly current strong in Shetland and blowing a gale at Skudesnæs. Scarcely any change later except a falling light at Skudesnæs and in Shetland, and an increase to a strong breeze or high wind at Bodö and Thorshavn.

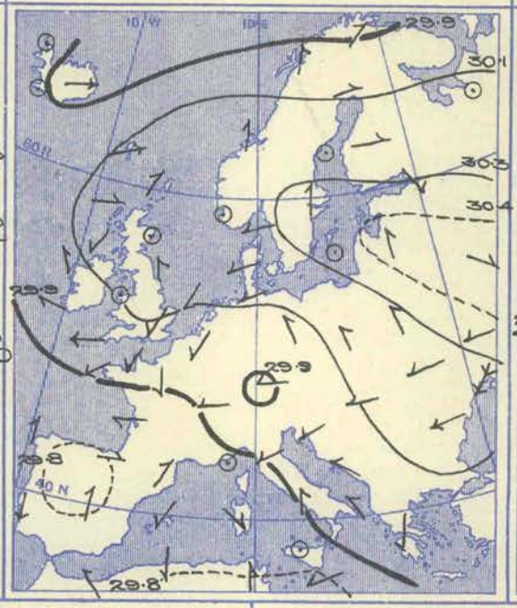
Barometer in morning above 30·5 in. at Moscow and relatively high thence across the Baltic, these Islands, and to the south-westward. Below 29·8 in. in a large depression centred over Corsica, and below 29·1 in. in another over the Icelandic region. Little change occurring in the general situation during day; northern depression travelling away in a north-easterly direction, and gradient growing steep between Iceland and the Faeröe. Pressure decreasing slowly within the anticyclonic region.

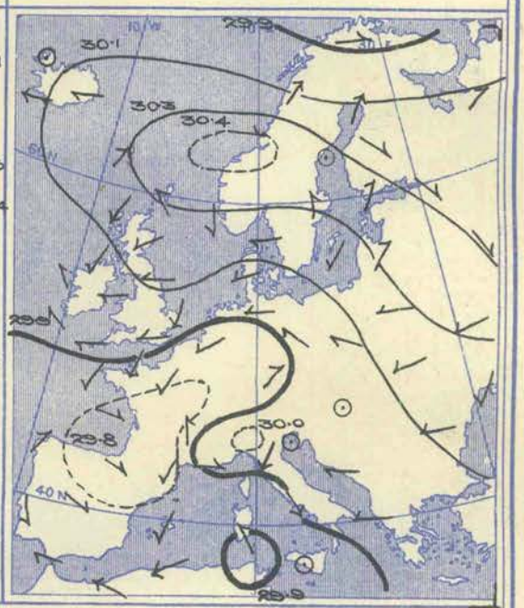
Tuesday, 9th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in the east of Scotland, at Vienna, and in several parts of Italy, but fair to very fine over our area generally. Thunderstorms occurring later at Paris, Brussels, Besançon, and in some German districts, considerable falls of rain at Trieste, and in Italy, and as much as 1·25 in. at Bern.

Temperature risen in most regions, decidedly in central Europe and on the shores of the Baltic. Readings in morning 60° or above over a large area in the south and also at many stations in Germany and the central part of Russia; about 50° in several districts in these Islands, Scandinavia, and Finland, but below 40° on the shores of the White Sea. Rising to 70° or slightly higher in some parts of England and Wales during day, but remaining below 55° at most places along the east and north-east coasts. Maxima above 70° in Germany, Belgium, most of France, and in some parts of Spain, Italy, and Algeria. Thermometer touching 81° at Madrid, but only rising to 63° at Rome.

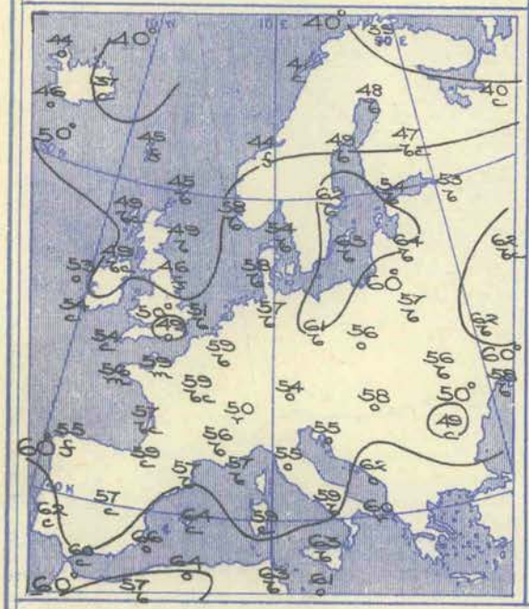
Wind in morning mainly between South-East and East or North-East over central Europe, the North Sea region, the United Kingdom, and France; light or moderate in force generally, but fresh on our south-east coast. Light variable airs prevailing over the Mediterranean, and light cyclonic breezes over the major portion of Russia, but a North-Easterly gale blowing at Odessa. Latter subsiding by evening, and no other change of importance occurring.

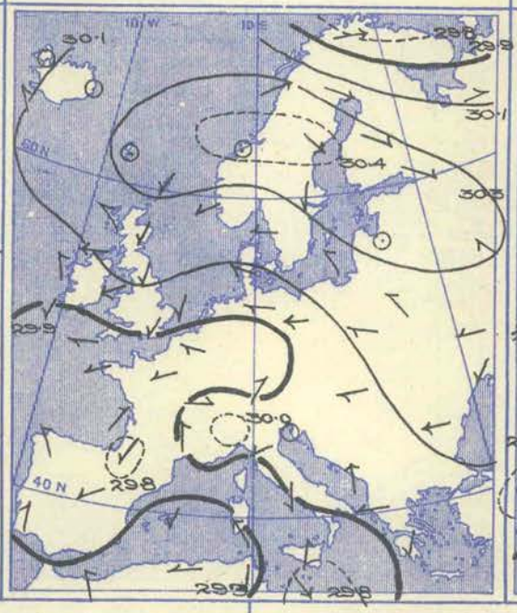
Barometer in morning 30·1 in. to above 30·3 in. in a large anticyclonic system having its maximum in central Russia and covering a considerable portion of the Continent and the United Kingdom; below 29·8 in. in depression with slight gradients over Spain and the north of Africa, and still lower on the Atlantic to the northward of the Azores. Pressure becoming highest in the west of Norway by evening and increasing briskly in Iceland also. Spanish depression moving north-eastward and covering the greater part of France. A slight fall of the barometer taking place in these Islands.

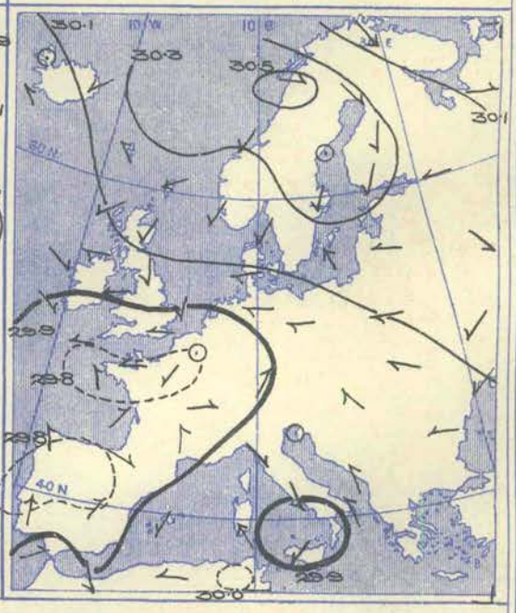
Wednesday, 10th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to very fine over our area generally, but rain in some parts of Italy and the Adriatic and also at Belfort and Vardö, and overcast at several Austrian stations. Thunderstorms later over a wide area in France, Belgium, the Channel Islands, and at some stations in the south of England; about 0·5 in. of rain falling at Paris and also at Lisbon, but little elsewhere.

Temperature changed rather irregularly; risen in most places. Morning readings ranging from above 60° at many stations in the south and also over a wide area in the Baltic region and central Russia, to about 50° in several British and Irish districts, and to about 40° in the extreme north of our area. Thermometer rising to between 72° and 79° in London during day, to 75° at Brighton, and to about 70° in many other parts of the Kingdom. Maxima between 70° and 80° over a large portion of the Continent, and nearly 80° in places; 77° at Hamburg, 73° at Blaavands Huk, and 72° at Skudesnaes.

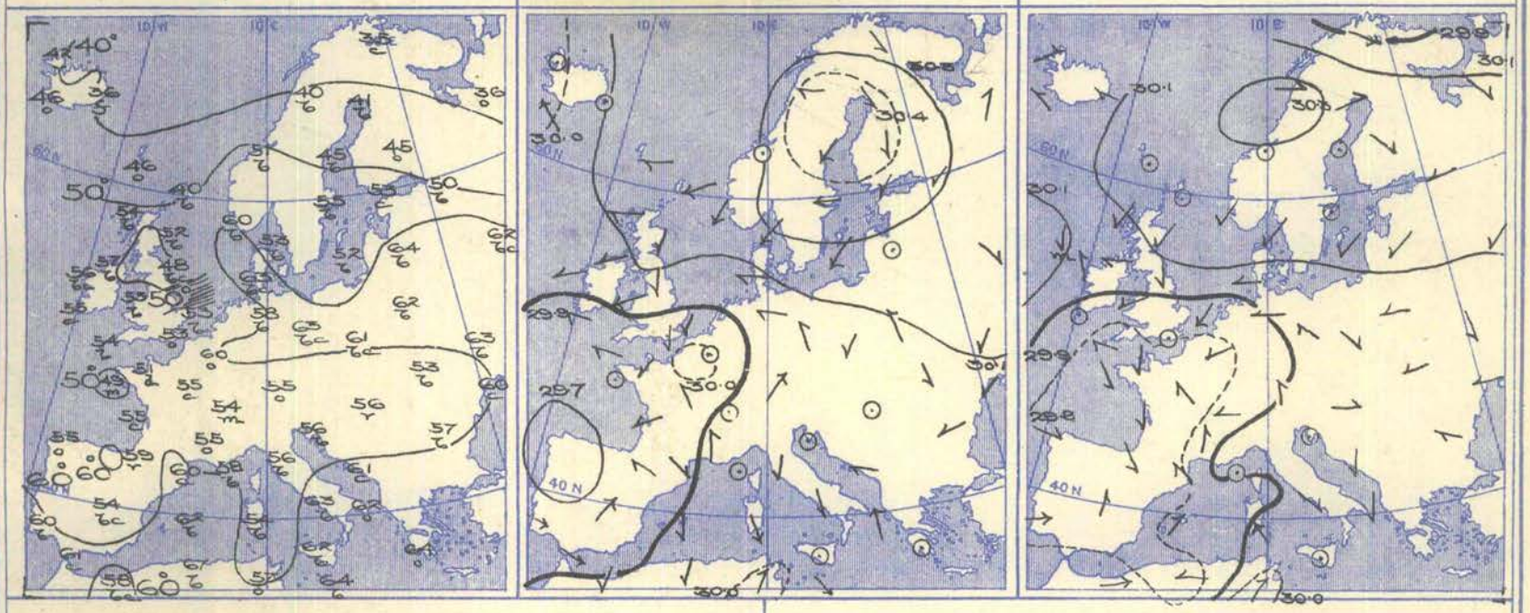
Wind in morning light or moderate in force very generally; mainly anticyclonic in the north and east of Europe and cyclonic in the south and south-west; Northerly and North-Easterly current fresh to strong locally on the east and south coasts of England. No change of importance during day over our area generally, but cyclonic movement becoming more marked in France and the south of England.

Barometer in morning above 30·4 in. in central Scandinavia and relatively high over northern Europe as a whole; below 29·9 in. in a large, low pressure of irregular shape covering France, the Channel, the Peninsula, and extending to the Azores, and below 29·8 in. at Malta. Pressure decreasing slowly later in these Islands, France, the Netherlands, and Spain, and a shallow, elongated depression developing over the north of France by evening.

Thursday, 11th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning unsettled, with much cloud in France and in some parts of central Europe, and rainy at Jersey, Biarritz, and Buda-Pesth. Fair to very fine in almost all other regions. Thunderstorms later in many parts of France, the south of England, some parts of Wales, and southern Ireland, but rain not generally heavy in these Islands. About 0·6 in. in the west of France and at Bilbao, and smaller amounts in various localities in central Europe and the Netherlands.

Temperature fallen in Sweden, risen in most parts of these Islands, changed irregularly elsewhere. Morning readings above 68° at Memel, above 60° over the southern half of Russia and at many stations on the shores of the Mediterranean; 60° on the south-west coast of Norway, 58° at Castlebay, and 55° on the west coast of Ireland; below 50° at some of our north-eastern stations, and below 40° in the extreme north of the Continent. Rising later to between 70° and 76° in various parts of England, Ireland, and the west of Scotland, and to nearly 80° in many regions on the Continent. Thermometer touching 82° at Memel.

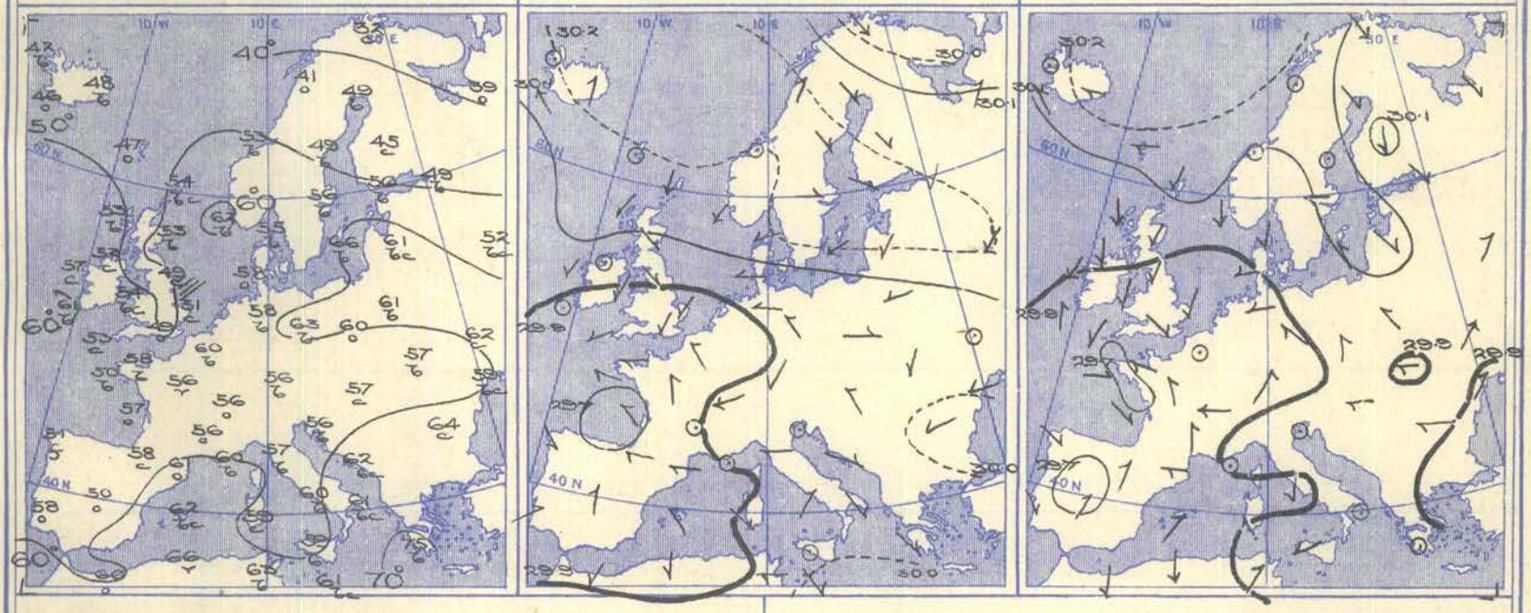
Wind in morning light or moderate very generally; anticyclonic in the northern countries, and cyclonic in the south and south-west. No general change during day; rising to a strong breeze from West at Vardö and to a gale from South-West in central Algeria.

Barometer in morning ranging from above 30·4 in. in the north of Scandinavia to below 29·8 in. in a small depression over Belgium, and to less than 29·7 in. in a larger system over the north of Spain and the adjacent portion of the ocean. Pressure decreasing in most regions during day, but no great modification occurring in the general distribution. Spanish depression extending to Algeria, by evening, and barometer falling briskly in the extreme north of Scandinavia.

Friday, 12th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning unsettled, with rain in places, in France, the north of Italy, and Algeria. Fair to bright over the greater part of this country and over the major portion of the Continent. Thunderstorms later in various parts of the United Kingdom, France, Algeria and Denmark, accompanied by heavy rain locally.

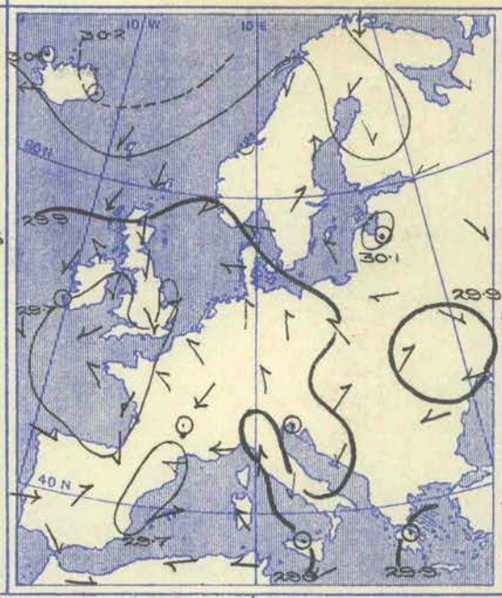
Temperature risen decidedly at a few stations in the far south, but changed rather irregularly as a whole. Morning readings 75° at Patras, 70° at Cape de Garde, 68° at Memel, 62° at Skudesnaes, and 61° on the south-west coast of Ireland. About 50° in the south-east of England, and below 40° in the extreme north of the Continent. Maxima during day 70° or above in various parts of England and Ireland, and as high as 76° at Oban, but only 55° at some of our east coast stations. Thermometer rising to between 70° and 80° over a very large area on the Continent; touching 77° in the north of Holland and 79° at Memel.

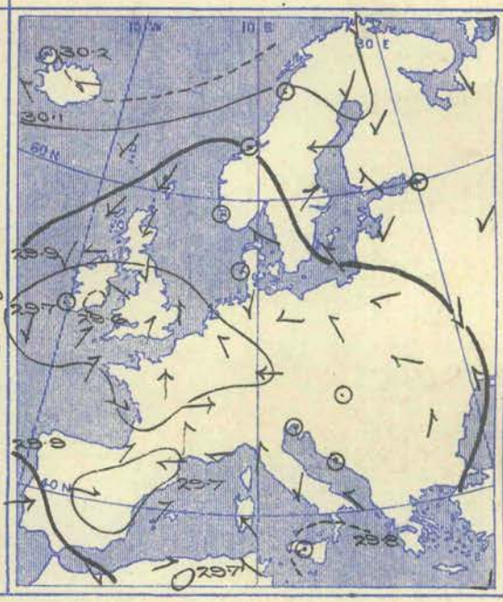
Wind in morning showing a light to moderate cyclonic movement over the United Kingdom, France, and the Spanish Peninsula. Light anticyclonic breezes prevailing over most of Scandinavia and the Baltic region, and light variable airs over Italy and the Mediterranean. No change occurring later in day.

Barometer in morning above 30·2 ins. in a large area extending from Iceland to Central Russia; below 29·7 ins. in a large depression having its minimum over the Bay of Biscay, and above 30·1 ins. in the Azores region. Barometer falling during day over nearly the whole of our area, and main depression extending northwards over this country. A separate minimum forming over central Spain by evening.

Saturday, 13th May, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning generally very cloudy or overcast in these Islands and the western countries of the Continent, with a thunderstorm at Oxford and steady rain or passing showers in several other localities. Mostly fair to bright elsewhere, but rain falling at Copenhagen and also at Nemours. Snow reported in the extreme north of Norway. Thunderstorms during day or at night over a large area in this country, France, and Algeria, with heavy rain in places. About an inch at several stations in the south of France, and as much as 1·7 in. at Cape Sicié.

Temperature changed rather irregularly. Morning readings ranging from 67° in Greece and between 60° and 65° at many other places in the south and also in Germany to about 50° over a considerable portion of this country, and to 32° at Vardö. Rising later to about 70° in various parts of England and Ireland, to between 70° and 80° in many parts of France and central and southern Europe. Touching 81° at Frankfurt and Nancy. Maxima very little above 50° in Scotland, and no higher than 60° at Turin.

Wind in morning showing several partial or complete cyclonic circulations. Northerly current blowing a gale at Vardö and that from North-East fresh to strong in the north-west of Scotland, but little force generally. A high wind from North-West setting in at Malaga by evening, and a strong gale from South-West at Laghouat. Little other change; gale at Vardö subsiding.

Barometer in morning above 30·2 in. to the north-eastward of Iceland; below 29·8 in. in a very large irregularly shaped depression with several minima covering a large portion of western and south-western Europe, as well as northern Africa; below 29·9 in. in another shallow system in the south-east of Europe. Not much modification later in the general distribution of pressure, but another minimum forming over Spain and gradient increasing over that country and in some parts of Algeria.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
1	1911. May 4th, 10.50 a.m. to 2.50 p.m.	Aldershot.	Temperature Humidity .. Wind .. .	288°. 70%		283° 80%					281° 80%	Metres. About 700	Fine, bright, gentle wind.
2	May 9th, 3.44 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	50°, 3		60°, 12	65°, 10					1,000	Two theodolites. Cumulus clouds. Balloon lost behind cloud.
3	May 10th, 10.30 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	291·4° 68% 20°, 8	289·6° 73% 35½°, 10	287·5° 60% 80°, 7					286·8° 55% 90°, 7	680	Wind 50°, 12, at 340 m. above sea, then rapidly falling off. Clear sky.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	—	—	1
Area of Surface (sq. metres) ..	—	—	7
Capacity of Balloon (cub. metres)	—	·047	—
Length of Wire (metres)	1,100	—	1,300

South Kensington, London, S.W. *May 17th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 20. TWENTIETH WEEK, SUNDAY, MAY 14TH, TO SATURDAY, MAY 20TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was rainy at the commencement over the major portion of the Kingdom; thunderstorms occurred at Glasgow and at some places in the north of England, and thunder only in the east of Scotland. The week subsequently was mostly dry, though seldom very bright. On the 17th thunder was heard at Stonyhurst, and slight thunderstorms were experienced at Southport, Darwen and Shrewsbury. Much mist or fog prevailed on the coast early in the period.

Temperature was above the average, the greatest difference being about 3·5° in the Midland Counties and England N.E. and N.W. The highest of the maxima were recorded on rather irregular dates, but about the middle of the week at most stations. The readings ranged from 73° to 70° in England, and from 70° to 66° in Ireland, while in the Scottish districts the thermometer touched 69° or 68°; in the English Channel 67°. Between the 18th and 20th the thermometer at many places in the east and south-east of England scarcely exceeded 50°. The lowest of the minima, which occurred generally late in the week, ranged from 33° in Scotland E. to 42° in the Midland Counties and England S., and to 46° in the English Channel. The lowest readings on the grass were 29° at Markree, 30° at Dumfries, and 31° at Balmoral, Newton Rigg, Armagh, and Dublin.

Mean Temperature of the Sea. On the coast generally the water was warmer than during the corresponding week of last year. At Kirkwall the difference was +4°, but in most places it was slight. The means for the week ranged from 55° at Teelin and Seafield, and 54° at Eastbourne and Margate, to about 47° at several places in the north and north-east, and to 46° at Scarborough.

Rainfall was less than the average in all districts except Scotland E. and England E., the fall being very slight in some of the western and south-western districts. At several stations in the north of Ireland and the south-west, west, and north-west of Great Britain there was no measurable quantity. At Burnley on the 14th there was as much as 1·30 in.

Bright Sunshine exceeded the normal in Scotland W. and Ireland N., and equalled it in Ireland S., but in all other districts was less than the normal. The percentage of the possible duration ranged from 50 in Scotland W. and above 40 in England N.W. and in Ireland, to 25 in England S.E., and to 17 in the Midland Counties.

Barometer and Wind. During the early days of the week a depression covered the whole Kingdom, but as the system was shallow the cyclonic movement of the wind had little force. The disturbance, after some modification in depth and form, passed away northward, the distribution became irregular and the readings of the barometer for a time very uniform. Towards the end of the period, however, an anticyclone extended north-eastwards from the Azores, the elongated central region stretching in a N.E. to S.W. direction across Scotland, Ireland, and the adjacent portion of the Atlantic. The light variable airs were consequently replaced by a more decided movement of air from the Northward, a change that brought about a decided fall of temperature.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 156.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Moderate	Moderate	Moderate	Light	Light	Light	Light	Light	Light	Light	Light
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Very scanty	Very scanty	Abundant	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 11 weeks from Mar. 5th, 1911.	Warmth ...	**2** * 1	**3** * 2	**5** * 1	**4** * 1	**4** * 1	**2** * 1	**3** * 3	**3** * 2	**2** * 2	**2** * 1	**4** * 3	**2** * 2
	Rainfall ...	**4** * 5	**3** * 3	**2** * 6	**2** * 2	**2** * 5	**3** * 3	**3** * 6	**3** * 5	**5** * 5	**3** * 6	**4** * 4	**3** * 4
	Sunshine ...	**5** * 3	**2** * 5	**0** * 5	**1** * 3	**0** * 5	**3** * 4	**3** * 3	**2** * 2	**2** * 3	**4** * 4	**3** * 3	**2** * 5

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

9659 / 450 Wy. & S., Ltd. 5—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	TWENTIETH WEEK—May 14th to May 20th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	69	37	55·6	42·9	48·8	+ 1·1	48	+ 2	0	− 6	2	− 2	0·30	−0·32	34	− 5	30	− 4
Eastern																		
1. SCOTLAND, EAST	68	33	57·7	43·0	50·0	+ 1·9	56	+ 4	0	− 6	2	− 2	0·61	+0·11	34	− 9	30	− 8
2. ENGLAND, N.E.	71	40	59·3	46·0	52·3	+ 3·4	72	+ 20	0	− 3	1	− 2	0·33	−0·05	27	− 18	24	−17
3. ENGLAND, EAST	73	39	59·1	47·0	52·7	+ 1·8	75	+ 9	0	− 3	2	− 1	0·51	+0·08	28	− 19	26	−18
4. MIDLAND COUNTIES	72	42	62·5	47·1	54·4	+ 3·6	87	+ 20	0	− 4	1	− 2	0·19	−0·29	19	− 23	17	−22
5. ENGLAND, S.E.	72	42	60·8	48·0	54·0	+ 1·7	84	+ 10	0	− 1	1	− 2	0·14	−0·27	27	− 21	25	−19
Western																		
6. SCOTLAND, WEST	69	37	61·8	44·7	52·7	+ 2·8	75	+ 16	0	− 3	1	− 2	0·12	−0·54	56	+ 11	50	+10
7. ENGLAND, N.W.	71	38	61·1	47·3	53·8	+ 3·3	83	+ 21	0	− 1	1	− 2	0·18	−0·32	45	− 2	41	− 1
8. ENGLAND, S.W.	70	36	61·2	47·7	54·0	+ 2·3	84	+ 15	0	− 1	1	− 2	0·05	−0·44	41	− 7	38	− 6
9 IRELAND, NORTH	66	36	58·7	45·0	51·5	+ 1·3	67	+ 7	0	− 1	1	− 3	0·09	−0·45	46	+ 2	42	+ 2
10. IRELAND, SOUTH	70	38	62·2	46·0	53·7	+ 2·0	82	+ 13	0	− 1	2	− 2	0·15	−0·39	47	0	43	0
11. ENGLISH CHANNEL	67	46	61·4	50·1	55·4	+ 2·4	94	+ 17	0	0	1	− 2	0·09	−0·31	43	− 14	40	−13
	THE SEASON (Spring).—Aggregates, &c., for the Period of 11 Weeks, March 5th to May 20th, 1911.																	
0. SCOTLAND, NORTH	75	22	*	*	*	*	269	− 7	196	−23	41	− 9	8·13	−0·62	335	+ 7	32	+ 1
Eastern																		
1. SCOTLAND, EAST	71	17	*	*	*	*	303	− 34	203	−33	45	+ 3	5·04	−0·24	318	−39	30	− 4
2. ENGLAND, N.E.	72	26	*	*	*	*	354	+ 17	150	−23	38	0	3·34	−0·92	311	−75	30	− 7
3. ENGLAND, EAST	75	22	*	*	*	*	426	− 10	156	−25	35	− 1	4·26	+0·21	373	−25	36	− 2
4. MIDLAND COUNTIES	74	22	*	*	*	*	430	− 20	171	−23	31	− 4	3·23	−1·28	295	−66	29	− 6
5. ENGLAND, S.E.	75	24	*	*	*	*	442	− 27	134	+12	33	− 1	4·52	+0·26	389	−11	38	− 1
Western																		
6. SCOTLAND, WEST	76	20	*	*	*	*	383	+ 23	165	+ 5	34	− 8	6·70	−1·02	358	−15	34	− 2
7. ENGLAND, N.W.	72	26	*	*	*	*	401	+ 25	130	− 4	33	− 6	4·78	−0·82	355	− 9	34	− 1
8. ENGLAND, S.W.	74	22	*	*	*	*	430	− 16	124	+23	34	− 4	6·24	+0·14	387	−18	38	− 2
9. IRELAND, NORTH	74	22	*	*	*	*	387	− 3	134	+ 7	35	−11	4·75	−1·59	363	+ 9	35	+ 1
10. IRELAND, SOUTH	74	23	*	*	*	*	491	+ 22	124	+30	44	+ 2	6·60	−0·21	377	−15	37	− 2
11. ENGLISH CHANNEL	73	28	*	*	*	*	516	− 3	54	+24	43	+ 3	5·37	+0·35	439	−44	43	− 4
	THE YEAR.—Aggregates, &c., for the Period of 20 Weeks, January 1st to May 20th, 1911.																	
0. SCOTLAND, NORTH	75	14	*	*	*	*	358	+ 22	415	−134	87	− 9	20·54	+0·83	421	+ 5	27	0
Eastern																		
1. SCOTLAND, EAST	71	11	*	*	*	*	388	− 17	487	−126	79	+ 2	9·37	−0·90	461	− 20	29	− 1
2. ENGLAND, N.E.	72	19	*	*	*	*	478	+ 61	371	−103	66	− 5	5·85	−1·80	445	− 68	28	− 4
3. ENGLAND, EAST	75	16	*	*	*	*	538	+ 12	409	−111	71	+ 1	7·52	+0·10	520	− 18	33	− 1
4. MIDLAND COUNTIES	74	14	*	*	*	*	552	− 2	415	−115	58	−10	5·80	−2·89	424	− 57	27	− 4
5. ENGLAND, S.E.	75	16	*	*	*	*	545	− 42	361	− 20	62	− 4	7·64	−1·07	541	+ 8	34	+ 1
Western																		
6. SCOTLAND, WEST	76	18	*	*	*	*	506	+ 57	347	− 75	74	− 8	16·09	−0·48	468	− 12	30	− 1
7. ENGLAND, N.W.	72	17	*	*	*	*	512	+ 42	314	− 71	65	−10	10·07	−1·20	481	+ 4	30	0
8. ENGLAND, S.W.	74	13	*	*	*	*	543	− 54	297	− 3	67	− 7	11·21	−1·89	529	− 12	33	− 1
9. IRELAND, NORTH	74	18	*	*	*	*	540	+ 25	302	− 42	72	−16	10·15	−2·72	495	+ 23	31	+ 1
10. IRELAND, SOUTH	74	18	*	*	*	*	680	+ 25	295	+ 36	81	+ 1	11·54	−2·82	516	− 12	33	− 1
11. ENGLISH CHANNEL	73	28	*	*	*	*	704	− 34	135	+ 26	76	− 5	8·84	−2·09	597	− 54	37	− 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Dew.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ♫ is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*52*	*14th, 15th*	*42*	*18th, 20th*	*50·5*	*43·4*	*46·7*	—	*33*	*0*	*5*	*0·20*	—	*18·6*	—	*16*	—	*Baltasound.*
	a Lerwick	53	14th	42	18th, 19th	50·7	44·1	47·2	+ 2·3	36	0	2	0·26	—	17·3	−22·9	15	−20	Deerness.
	a Stornoway	58	18th	41	17th, 18th	54·9	42·7	48·4	+ 1·4	45	0	3	0·53	− 0·03	39·1	− 4·2	34	− 4	Stornoway.
	a *Castlebay, Barra Isd.*	*58*	*17th, 18th*	*43*	*19th*	*54·6*	*44·6*	*49·3*	− *1·2*	*51*	*0*	*1*	*0·24*	—	*70·0*	—	*61*	—	*Castlebay.*
	a Wick	56	16th, 17th	40	18th	52·4	43·0	47·4	+ 0·5	38	0	5	0·48	+ 0·03	*	*	*	*	* *
	p Strathpeffer.. ..	60	17th, 19th	40	19th	57·2	43·5	49·9	+ 2·1	55	0	2	0·37	− 0·07	46·4	+ 7·8	41	+ 7	Strathpeffer.
	b, Mainland. — p Glencarron .. S	64	20th	37	19th	57·8	41·8	49·3	+ 2·5	52	1	2	0·29	− 0·74	*	*	*	*	* *
	p Fort Augustus S	58	16th	37	16th, 17th	54·0	42·5	47·9	+ 0·1	41	0	2	0·12	− 0·40	34·9	+ 4·4	31	+ 4	Fort Augustus.
	p Fort William S	69	18th	37	17th	62·4	42·4	51·8	+ 2·5	69	0	1	0·05	− 0·79	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	60	16th, 17th	36	18th	56·2	42·4	48·9	+ 0·4	48	0	3	1·06	+ 0·62	*29·2*	—	*26*	—	*Gordon Castle.*
	a Nairn	61	16th	38	18th	55·4	42·7	48·7	+ 0·2	47	0	3	1·27	+ 0·90	37·8	—	33	—	Nairn.
	a Aberdeen	60	16th	44	18th, 20th	55·3	45·6	50·2	+ 2·5	57	0	3	1·30	+ 0·82	23·3	−19·2	20	−17	Aberdeen.
	a Balmoral .. S	64	20th	34	16th	58·0	42·1	49·6	+ 4·1	53	0	2	0·40	− 0·13	26·1	—	23	—	Crathes S.
	p Crieff .. .. S	68	19th	39	20th	63·3	42·8	52·4	+ 2·7	73	0	2	0·26	− 0·29	47·7	—	42	—	Balruddery.
	a Leith	64	15th	41	16th	56·7	45·1	50·6	+ 1·2	60	0	2	0·11	− 0·27	*	*	*	*	* *
	p West Linton.. S	62	15th, 17th	33	17th	58·6	40·2	48·9	+ 2·4	56	5	2	0·36	—	*51·7*	—	*46*	—	*West Linton.*
	p Marchmont .. S	64	16th	42	16, 17, 20th	58·4	43·4	50·5	+ 3·0	60	0	1	0·41	− 0·43	33·0	− 7·1	30	− 6	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	66	16th	41	16th	58·0	44·3	50·7	+ 2·8	61	0	2	0·37	− 0·12	37·7	—	34	—	Cockle Park.
	a Shields	66	15th	43	20th	57·0	45·0	50·6	+ 2·4	60	0	1	0·46	+ 0·08	*16·4*	*−15·9*	*15*	*−14*	*Newcastle.*
	p Durham	66	15th	40	16th	58·9	45·3	51·7	+ 3·1	68	0	1	0·21	− 0·21	20·1	−18·1	18	−16	Durham.
	p Rounton .. M	67	15th, 16th	42	19th	59·5	44·2	51·4	+ 3·6	66	0	2	0·95	+ 0·55	*	*	*	*	* *
	p Scarborough.. M	68	15th	45	18th, 20th	56·9	47·4	51·9	+ 2·9	69	0	2	0·18	− 0·23	23·6	—	21	—	Scarborough.
	p York	68	17th	46	20th	61·7	48·9	54·9	+ 4·1	90	0	1	0·05	− 0·39	15·7	−24·2	14	−22	York.
	b, South. — a Spurn Head	62	15th	45	18th	56·1	46·7	51·1	+ 1·4	64	0	1	0·32	− 0·04	*	*	*	*	* *
	a Lincoln	69	16th, 17th	45	16, 19, 20th	61·1	46·6	53·4	+ 2·2	80	0	2	0·41	0·00	32·8	—	30	—	Skegness.
	a Fulbeck	71	16, 17, 18th	43	20th	64·9	45·9	54·8	+ 4·3	90	0	1	0·01	− 0·42	30·7	—	28	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	64	16th	43	19th	55·7	46·5	50·8	+ 1·1	62	0	3	0·38	—	*22·9*	—	*21*	—	*Lowestoft.*
	p Hillington .. M	70	16th	39	19th	58·9	45·5	51·8	+ 0·9	69	0	2	0·82	+ 0·40	19·8	—	18	—	Cromer.
	a Yarmouth	66	15th	43	19th	56·9	47·7	52·0	+ 2·4	70	0	1	0·35	− 0·03	37·0	− 9·1	34	− 8	Hillington.
	a Norwich	73	16th	43	19th	59·3	46·9	52·7	+ 2·5	75	0	1	0·46	—	18·3	—	17	—	Yarmouth.
	p Geldeston	70	16th	42	19th	58·7	45·8	51·9	+ 1·4	69	0	2	0·39	− 0·01	*	*	*	*	* *
	p Cambridge	70	16th, 17th	42	19th	61·4	46·4	53·5	+ 1·6	81	0	2	0·69	+ 0·28	27·6	−21·2	25	−20	Geldeston.
	b, South. — a *Felixstowe*	*62*	*15th*	*42*	*19th*	*57·1*	*47·4*	*52·0*	+ *1·3*	*70*	*0*	*2*	*0·20*	—	32·0	−13·4	30	−12	Cambridge.
	a Clacton-on-Sea ..	65	17th	42	19th	58·7	48·4	53·2	+ 3·1	78	0	1	0·35	—	*34·2*	—	*32*	—	*Felixstowe.*
	a Rothamsted ..	70	16th	43	16th	60·5	46·7	53·2	+ 2·5	78	0	1	0·83	+ 0·40	26·1	—	24	—	Clacton.
	a *Shoeburyness* ..	*66*	*16th*	*44*	*19th, 20th*	*59·1*	*48·1*	*53·3*	+ *0·6*	*79*	*0*	*1*	*0·33*	+ *0·08*	32·9	−11·1	31	−10	Rothamsted.
	p Tottenham	71	16th, 17th	46	20th	61·8	49·3	55·2	+ 3·4	92	0	1	0·28	—	*21·3*	—	*20*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	a Harrogate	66	17th	43	20th	59·5	46·3	52·5	+ 3·8	74	0	2	0·31	− 0·16	26·5	—	25	—	Tottenham.
	a Bawtry	71	17th	45	16th, 20th	63·0	46·7	54·4	+ 3·7	87	0	2	0·14	− 0·28	19·0	—	17	—	Harrogate.
	p *Buxton* .. M	*65*	*17th*	*40*	*20th*	*59·6*	*46·8*	*52·8*	+ *5·6*	*76*	*0*	*2*	*0·50*	− *0·20*	20·9	−17·2	19	−16	Worksop.
	a Nottingham ..	70	16th, 17th	46	14, 18, 20th	62·7	47·3	54·5	+ 3·7	88	0	2	0·64	+ 0·23	*18·0*	—	*16*	—	*Buxton.*
	p Birmingham, Edgbsn	70	17th	45	20th	61·7	48·8	54·9	+ 4·4	90	0	0	0·00	− 0·46	23·6	—	22	—	Nottingham.
	a Raunds .. M	72	16th	43	16th, 19th	61·6	45·4	53·0	+ 2·1	77	0	0	0·47	—	12·5	—	12	—	Birmingham.
	a Oxford	71	16th, 17th	45	16th	61·9	48·1	54·6	+ 2·9	88	0	2	0·47	—	*	*	*	*	* *
	b, West. — a Cheadle .. M	68	17th	45	16th	60·4	48·3	54·0	+ 4·6	84	0	1	0·26	− 0·34	21·9	−21·9	20	−20	Oxford.
	p Shrewsbury	70	17th, 18th	42	17th	66·0	46·0	55·4	+ 4·1	94	0	2	0·26	− 0·21	14·2	—	13	—	Sheffield.
	a Hereford .. M	70	17th, 18th	44	16th, 17th	64·4	46·5	54·9	+ 3·4	90	0	1	0·25	—	*	*	*	*	* *
	a Cirencester	71	16th, 17th	42	14th	62·8	45·6	53·7	+ 3·5	82	0	0	0·00	− 0·47	*	*	*	*	* *
	a Bath	70	16th	46	14th	63·7	49·6	56·2	+ 4·2	99	0	0	0·00	− 0·47	14·7	−31·1	14	−29	Cirencester.
												0	0·00	− 0·43	24·2	—	22	—	Bath.
LONDON .. — ..	a *Westminster* ..	*71*	*16th, 17th*	*46*	*20th*	*63·7*	*50·9*	*56·9*	+ *4·1*	*104*	*0*	*2*	*0·17*	− *0·19*	*21·4*	—	*20*	—	*Ramsgate.*
	a *Greenwich*	*72*	*16th*	*45*	*20th*	*63·6*	*48·1*	*55·4*	+ *3·5*	*94*	*0*	*2*	*0·18*	− *0·20*	*21·2*	−25·7	*18*	−24	Kew.
5. ENGLAND, S.E... ..	p Kew	70	16th, 17th	46	20th	61·7	50·2	55·6	+ 3·3	95	0	1	0·14	− 0·22	*24·9*	*−16·8*	*23*	*−16*	*Greenwich.*
	a Marlborough ..	70	16th, 17th	42	14th, 16th	62·3	44·5	52·9	+ 2·9	76	0	0	0·00	− 0·43	19·4	−22·9	18	−21	Marlborough.
	a Margate	65	16th	45	20th	56·9	48·5	52·5	+ 1·1	74	0	3	0·34	0·00	18·9	−24·1	19	−22	Margate.
	a Wisley, Surrey ..	69	17th	45	16, 17, 20th	61·4	47·4	54·0	+ 1·8	84	0	1	0·34	—	20·4	—	19	—	Wisley.
	a Swarraton .. M	69	17th	44	18th	61·5	46·1	53·3	+ 2·8	79	0	2	0·08	− 0·37	20·5	—	19	—	Worthing.
	a Tunbridge Wells M	68	16th, 17th	43	16th, 20th	60·5	46·5	53·1	+ 1·9	78	0	1	0·26	− 0·14	33·1	—	31	—	Tunbridge Wells.
	a Dungeness	62	16th, 17th	45	20th	57·3	48·1	52·4	+ 1·1	73	0	2	0·13	− 0·14	28·7	−17·5	27	−16	Littlestone.
	p Hastings	68	16th, 17th	47	19th, 20th	60·5	48·8	54·3	+ 2·6	86	0	1	0·05	− 0·32	30·7	—	29	—	Hastings.
	p Southampton ..	72	17th	47	20th	63·4	49·6	56·1	+ 2·5	99	0	2	0·03	− 0·41	*39·1*	*−13·7*	*37*	−13	Southampton.
	a Ventnor	71	17th	47	20th	62·4	50·1	55·9	+ 3·2	97	0	1	0·01	− 0·36	26·2	−22·8	25	−21	Ventnor.
															32·0	−19·3	30	−18	Eastbourne.
															38·9	−12·3	36	−12	*Westminster.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	68	16th	38	17th	62·0	43·3	52·1	+ 2·2	71	0	1	0·10	− 0·51	*21·2*	*−16·2*	*20*	*−15*	*Greenwich.*
	p Glasgow	65	19th	45	19th	61·5	46·7	53·7	+ 4·0	82	0	2	0·53	− 0·94	*24·9*	*−16·8*	*23*	*−16*	
	p Rothesay .. S	69	19th	40	17th	63·7	44·1	53·3	+ 3·6	79	0	2	0·18	− 0·47	*	*	*	*	* *
	a Kilmarnock	65	17th, 18th	37	20th	61·9	42·7	51·7	+ 1·9	68	0	2	0·06	—	44·6	+ 7·6	40	+ 7	Glasgow.
	a Colmonell	64	17th, 18th	40	17th	61·4	43·6	52·0	+ 2·0	70	0	1	0·03	− 0·55	*50·8*	—	*45*	—	*Kilmarnock.*
	a Dumfries .. S	78	17th	41	17th	62·6	45·3	53·4	+ 2·9	80	0	0	0·00	− 0·57	*	*	*	*	* *
	p Cally, Gatehouse S	68	17th	40	17th	61·5	45·1	52·8	+ 2·9	76	0	1	0·01	− 0·69	*53·1*	—	*48*	—	*Dumfries.*
	b, ISLE OF MAN .. — p Douglas	64	18th	46	16th, 17th	59·5	46·7	52·7	+ 3·1	75	0	1	0·02	− 0·55	*	*	*	*	* *
7.	p Aspatria	67	17th	41	17th	60·7	44·9	52·3	+ 3·1	72	0	2	0·02	− 0·55	68·0	+17·3	61	+16	Douglas.
	p Newton Rigg ..	68	17th	40	17th	61·3	44·9	52·6	+ 4·1	74	0	1	0·23	− 1·31	43·2	—	39	—	Hoylake.
	p Stonyhurst	65	17th	43	20th	60·6	48·5	54·2	+ 4·3	85	0	2	0·28	− 0·35	56·6	—	51	—	Aspatria.
	a, ENGLAND, N.W... — p Blackpool .. M	71	16th, 20th	38	20th	63·7	46·1	54·4	+ 4·0	87	0	0	0·00	− 0·48	46·9	+ 2·5	42	+ 2	Newton Rigg.
	p M'nch'ster, Prestwich	68	14th	43	20th	62·6	50·5	56·2	+ 6·2	99	0	2	0·12	− 0·43	34·3	− 9·3	31	− 8	Stonyhurst.
	a Liverpool (Bidston)	64	14th	45	20th	59·9	49·0	54·1	+ 3·4	85	0	2	0·16	− 0·26	45·0	− 0·3	41	0	Blackpool.
	a Hawarden Bridge ..	67	14th	44	16th	61·5	47·8	54·2	+ 2·4	85	0	3	1·03	+ 0·63	*20·3*	*−18·2*	*19*	*−17*	*Prestwich.*
															41·3	− *6·3*	*38*	− *6*	*Liverpool.*
															50·2	—	*46*	—	*Southport.*
															41·3	− *6·3*	*38*	− *6*	*Rhyl.*
8. — b, ENGLAND, S.W. ..	p Llandudno .. M	65	18th	47	18th	60·1	49·2	54·3	+ 3·5	86	0	0	0·00	− 0·43	51·1	+ 5·0	47	+ 5	Llandudno.
	a Holyhead	60	15th, 18th	45	18th, 19th	56·9	47·3	51·8	+ 1·7	69	0	0	0·00	− 0·42	36·0	—	33	—	Aberdovey.
	p Bettws-y-Coed ..	69	17th	41	19th	63·3	45·0	53·6	+ 2·6	81	0	0	0·00	—	42·8	—	39	—	Bettws-y-Coed.
															31·5	—	29	—	Aberystwyth.
	a Llangammarch Wells	67	17th	36	19th	62·1	42·3	51·6	+ 2·1	67	0	1	0·01	—	39·8	—	37	—	Llangammarch Wells.
	a, SOUTH WALES .. — a Pembroke	58	19th, 20th	44	17th, 20th	55·7	46·7	50·9	+ 0·8	62	0	3	0·03	− 0·39	33·3	−16·7	31	−16	Pembroke.
	a Cardiff	66	19th	43	20th	61·9	47·8	54·4	+ 2·2	87	0	0	0·01	− 0·54	*42·1*	—	*39*	—	*Cardiff.*
															52·2	+ *2·2*	*48*	+ *2*	*Tenby.*
	a Clifton	68	16th	48	20th	63·3	50·4	56·5	+ 4·0	102	0	0	0·00	− 0·50	*23·4*	—	*22*	—	*Clifton.*
	a Shaftesbury .. M	68	17th	44	20th	61·8	47·8	54·4	+ 4·0	87	0	2	0·18	− 0·29	*	*	*	*	* *
	a Arlington	65	16th	41	20th	60·6	45·9	52·8	+ 2·9	76	0	0	0·03	− 0·60	56·5	+ 7·1	53	+ 7	Newquay.
	a Cullompton .. M	70	16th	42	19th	65·8	46·2	55·4	+ 3·6	94	0	0	0·00	− 0·47	30·6	−14·5	29	−14	Cullompton.
	a Portland Bill ..	64	16th	46	14th	58·6	49·9	54·0	+ 2·5	84	0	2	0·19	—	*34·4*	—	*32*	—	*Weymouth.*
	p Plymouth	67	19th	47	16th, 20th	61·7	49·1	55·0	+ 2·3	91	0	0	0·00	− 0·45	40·7	− 8·9	38	− 8	Plymouth.
	p Falmouth	64	16th	47	20th	60·7	50·5	55·3	+ 3·6	93	0	0	0·00	− 0·48	55·3	+ 2·3	52	+ 2	Falmouth.
															39·1	—	*37*	—	*Salcombe.*
															42·2	− *8·8*	*39*	− *8*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	58	16th, 18th	46	15, 17, 19th	55·0	46·7	50·6	+ 1·4	60	0	1	0·02	− 0·46	*	*	*	*	* *
	a Blacksod Point ..	62	17th	42	16th, 17th	57·4	45·7	51·2	+ 0·6	64	0	0	0·00	− 0·61	*	*	*	*	* *
	p Markree Castle ..	63	17th, 18th	36	19th	59·8	41·6	50·2	+ 0·6	59	1	0	0·00	− 0·60	42·7	+ 0·2	39	0	Markree Castle.
	a Birr Castle	66	18th	38	15th	63·0	44·1	53·0	+ 2·4	77	0	1	0·01	− 0·51	*41·8*	− *0·4*	*38*	*0*	*Birr Castle.*
	b, East. — p Armagh	66	18th	39	20th	61·2	44·9	52·6	+ 3·0	74	0	2	0·38	− 0·19	50·1	+ 8·2	45	+ 7	Armagh.
	a Donaghadee	59	18th	44	20th	56·0	46·7	51·1	+ 1·4	64	0	1	0·15	− 0·37	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	65	18th	46	16th, 17th	59·2	47·8	53·2	+ 1·2	78	0	2	0·13	− 0·34	43·6	− 4·0	40	− 4	Phœnix Park.
	a Kilkenny	65	19th	42	17th	62·7	45·3	53·5	+ 2·8	81	0	3	0·46	− 0·04	*	*	*	*	* *
	a Waterford	68	19th	43	17th, 20th	63·1	46·6	54·4	+ 3·0	87	0	1	0·20	− 0·31	*	*	*	*	* *
	b, West. — a Birr Castle	66	18th	38	15th	63·0	44·1	53·0	+ 2·4	77	0	1	0·01	− 0·51	41·8	− 0·4	38	0	Birr Castle.
	a Foynes	69	19th	41	16th	63·1	45·5	53·8	+ 2·0	83	0	3	0·16	− 0·34	*	*	*	*	* *
	a Cahir .. .. M	68	19th, 20th	40	18th	64·4	44·6	53·9	+ 2·9	83	0	2	0·07	—	*	*	*	*	* *
	a Killarney	70	19th	44	19th	65·0	47·2	55·6	+ 4·6	95	0	2	0·09	− 0·58	53·2	+ 5·3	49	+ 5	Valencia.
	a Valencia	64	19th	41	16th	59·6	45·1	51·9	+ 0·4	69	0	2	0·20	− 0·50	50·3	—	47	—	Ballinacurra.
	a Roche's Point ..	67	19th	44	17th	60·1	47·9	53·6	+ 2·1	81	0	1	0·03	− 0·51					
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	62	19th	46	17th, 19th	59·7	48·4	53·7	+ 1·7	82	0	0	0·00	− 0·37	62·1	+ 8·8	55	+ 8	Scilly.
	a Jersey, St. Aubins ..	67	15th	50	14th, 20th	61·9	51·6	56·4	+ 3·0	101	0	4	0·27	− 0·18	32·4	−23·6	31	−22	St. Helliers.
	a Guernsey	67	15th	49	14th, 20th	62·7	50·4	56·2	+ 3·6	99	0	0	0·00	− 0·43	33·3	−24·7	31	−23	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 39·7 hrs. (− 9·9 hrs.), 37 % (− 9 %); Bournemouth, 37·5 hrs., 35 %; Bognor, hrs., %.*

For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	48·9	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	46·9
	Crathes	0	32	51·6	47·4
	Balmoral	0	31	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	35	52·4	—
2.	Cockle Park	0	39	54·3	49·6
	Durham	0	37	—	—
	York	—	—	53·4	48·6
	Hull	0	36	54·3	47·6
	Lincoln	—	—	54·1	48·7
	Rauceby	0	34	57·2	49·7
3.	Norwich	0	38	—	—
	Yarmouth	—	—	57·3	52·9
	Lowestoft	0	36	56·2	51·1
	Cambridge	0	39	56·2	51·6
	Clacton-on-Sea ..	0	36	55·3	52·1
	Southend	0	40	57·6	—
	Tottenham	0	42	—	51·7

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	37	51·5	48·9
	Huddersfield ..	0	39	54·0	46·8
	Buxton	0	39	53·9	46·5
	Sheffield	0	44	53·2	47·3
	Nottingham.. ..	0	40	54·8	49·4
	Birmingham.. ..	0	34	52·1	47·2
	Oxford	0	—	—	—
	Hereford	0	38	—	—
	Cirencester	0	40	54·0	49·5
	Bath	—	—	57·2	52·2
5.	Margate	0	42	54·5	50·9
	Greenwich	0	36	—	—
	Westminster ..	0	46	—	—
	Kew	0	39	56·2	50·4
	Canterbury	0	40	55·8	51·6
	Tunbridge Wells ..	0	41	57·4	—
	Wisley	0	39	56·1	51·2
	Worthing	0	44	58·4	52·1
	Portsmouth	0	40	58·1	53·7
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	48·6
	Colmonell	0	36	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	1	30	54·6	49·9
	Douglas	0	42	—	—
7.	Aspatria	0	34	54·5	47·8
	Newton Rigg ..	0	31	53·1	47·7
	Burnley	0	37	52·7	46·9
	Southport	0	32	57·5	52·7
	Manchester City ..	0	46	54·4	49·8
	Bettws-y-Coed ..	0	40	54·3	49·4
8.	Llangammarch Wells	0	32	53·3	48·0
	Cardiff	0	41	56·3	50·4
	Clifton	0	45	—	—
	Plymouth	0	40	58·1	—
9.	Armagh	0	31	55·7	50·4
	Markree	2	29	56·4	50·0
10.	Dublin, Trin. Coll. ..	0	31	55·1	51·3
11.	Guernsey, Brooklyn	0	44	56·7	51·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	47	47·1
	Kirkwall	52	50	51·4
	Wick	48	46	47·0
SCOTLAND, E.	Cromarty	56	49	51·1
	Pennan Bay	48	46	46·9
	Aberdeen, Cove Bay ..	47	46	46·5
ENGLAND, N.E.	Burnmouth, Berwick ..	47	46	46·9
	Scarborough	48	44	45·8
ENGLAND, E.	Shipwash Lightship ..	53	50	51·5
	Margate‡	55	54	54·4
ENGLAND, S.E.	Eastbourne‡	55	54	54·4

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	55	49	51·8
	Ballantrae	52	50	50·7
	Port Erin	52	47	49·1
ENGLAND, S.W.	Newquay	53	52	52·3
	Scilly	55	52	53·5
	Plymouth‡	50	49	49·7
	Salcombe	55	49	51·2
IRELAND, N.W.	Sheephaven	51	51	51·0
	Teelin	60	51	55·4
IRELAND, S.W.	Cleggan	55	47	51·6
	Seafield	58	54	55.4
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

Corrections and Additions for April, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

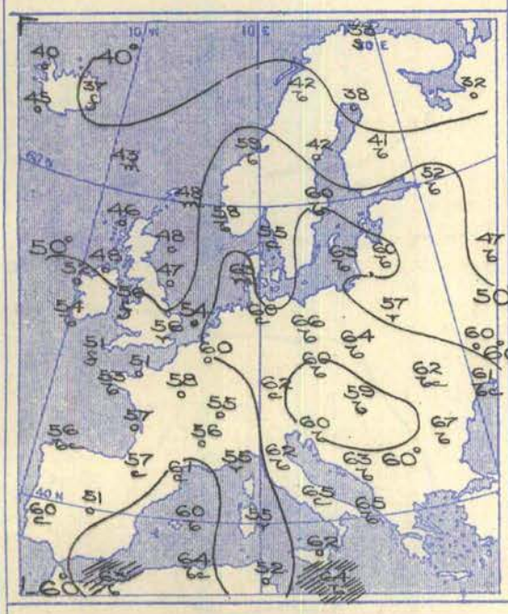
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 18, p. 146	10. Ireland, S.	—	—	—	—	—	—	—	—	—	—	—	—	—	30	−11	29	−10
Station Values.—Additions.																		
No. 14, p. 115	Buxton	43	2nd	25	6th	39·2	29·4	34·1	−6·3	0	55	3	0·13	−0·61	18·0	—	20	—
No. 15, p. 123	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	35·8	—	38	—
No. 16, p. 131	Norwich	69	22nd	40	16, 17, 20, 21	61·1	42·2	51·2	+6·0	64	0	3	0·07	—	—	—	—	—
No. 17, p. 139	Norwich	63	23, 24	41	29th	59·5	44·9	51·9	+5·4	69	0	5	0·94	—	—	—	—	—
No. 17, p. 139	Bettws-y-Coed	55	26,28,29	41	27, 29	54·0	44·1	48·8	+1·2	48	0	5	1·28	—	23·5	—	23	—
No. 17, p. 139	Salcombe	—	—	—	—	—	—	—	—	—	—	—	—	—	29·8	—	40	—
No. 18, p. 147	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	24·2	—	24	—
Station Values.—Corrections.																		
No. 14, p. 115	Strathpeffer	—	—	—	—	—	32·4	38·5	−3·2	—	33	—	—	—	—	—	—	—
No. 14, p. 115	Scarborough	—	—	—	—	43·4	35·0	39·0	−4·0	4	24	—	—	—	—	—	—	—
No. 14, p. 115	Bath	—	—	26	8th	—	32·9	38·7	−6·0	—	32	—	—	—	—	—	—	—
No. 14, p. 115	Blacksod Point.. ..	—	—	—	—	—	—	—	—	—	—	—	0·04	−0·69	—	—	—	—
No. 15, p. 123	Leith	—	—	—	—	—	—	—	—	—	—	—	0·09	−0·20	—	—	—	—
No. 15, p. 123	Lincoln	—	—	—	—	—	35·8	44·9	−0·2	—	17	—	—	—	—	—	—	—
No. 15, p. 123	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	43·4	—	46	—
No. 16, p. 131	Durham	—	—	38	17, 20	—	41·5	47·6	+3·8	41	1	—	—	—	—	—	—	—
No. 16, p. 131	Cromer	—	—	—	—	—	—	—	—	—	—	—	—	—	42·0	—	43	—
No. 16, p. 131	Shrewsbury	—	—	—	—	55·8	—	49·7	+2·7	54	—	—	—	—	—	—	—	—
No. 16, p. 131	Newton Rigg	—	—	—	—	52·0	—	46·3	+2·6	33	—	—	—	—	—	—	—	—
No. 17, p. 139	Strathpeffer	—	—	—	—	52·5	—	46·3	+1·6	36	—	—	—	—	—	—	—	—
No. 17, p. 139	Stonyhurst	56	23rd	—	—	51·3	—	47·2	+1·2	36	—	—	—	—	—	—	—	—
No. 18, p. 147	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	40·8	—	40	—

		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.—Additions.					
No. 14, p. 116	Buxton	5	21	39·2	41·2
No. 14, p. 116	Bath	—	—	43·7	44·7
No. 15, p. 124	Lowestoft	0	33	44·0	43·2
No. 15, p. 124	Bath	—	—	43·9	44·2
No. 16, p. 132	Norwich	0	33	—	—
No. 17, p. 140	Norwich	0	37	—	—
No. 17, p. 140	Bettws-y-Coed	0	40	48·4	45·7
No. 18, p. 148	Bath	—	—	51·0	48·6
Station Values.—Corrections.					
No. 14, p. 116	Dublin, Trinity Coll. ..	—	28	—	—
No. 16, p. 132	Armagh	—	—	47·4	—

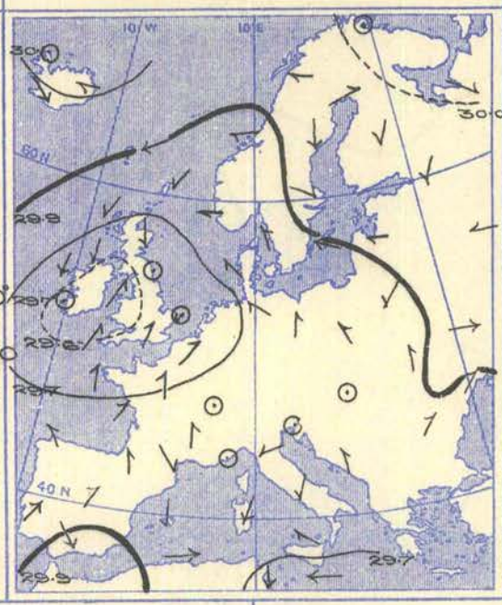
		Temperature of the Sea. Highest.	Lowest.	Mean.
Station Values.—Additions.				
No. 15, p. 124	Lerwick	44	43	43·3

Sunday, 14th May, 1911.

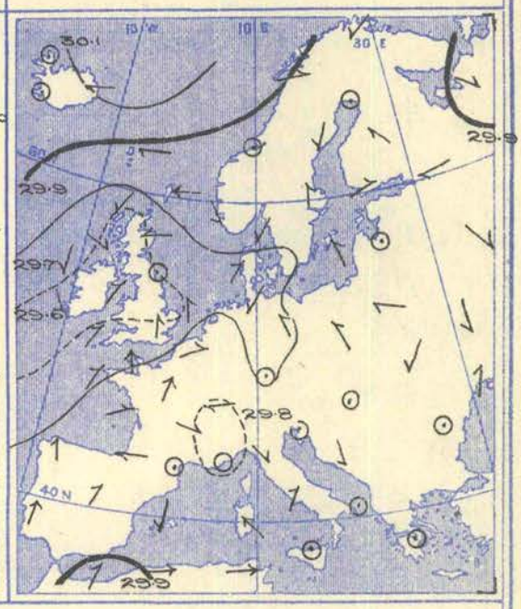
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several parts of Great Britain, in central Ireland, and at some stations in France and on the shores of the Mediterranean. Mainly fair to fine and bright over eastern and northern Europe, but snow falling at Vardö and rain at Warsaw. Rain experienced later at nearly all stations in these Islands, with thunder and lightning in places and also in various localities on the Continent.

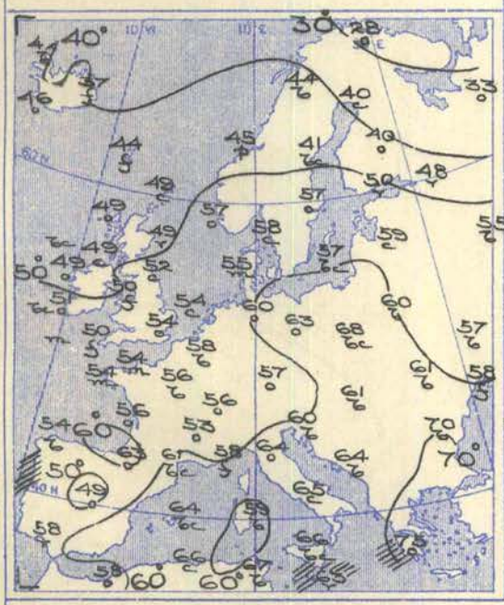
Temperature changed little or fallen. Morning readings ranging from 68° at Memel, 66° at Berlin, and about 65° at a few places in the extreme south of our area to below 50° in the north of these Islands, and to about 32° in the extreme north of Scandinavia and Russia Maxima during day below 65° in almost all parts of the United Kingdom, only 63° at Palermo and 57° at Turin; above 70° over a very wide area in central and southern Europe, and as high as 82° at Bucharest.

Wind in morning light and cyclonic over these Islands and the western countries generally, and light and rather variable in the east and north-east of our area. No change of importance occurring during day.

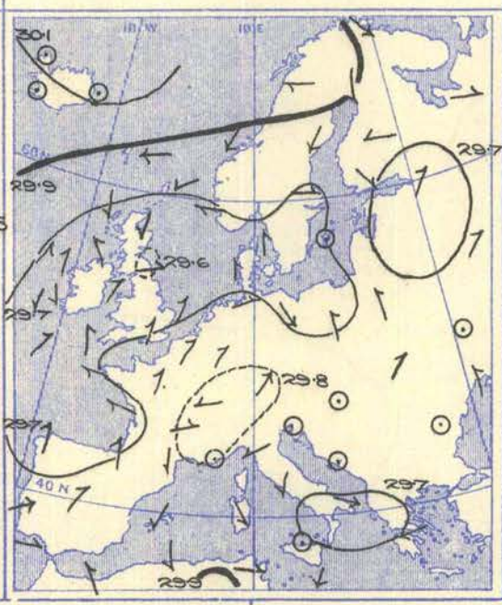
Barometer in morning above 30·0 in. in the north-west and north of our area, as well as on the Atlantic between the Peninsula and the Azores; below 29·7 in. in a large depression of little intensity covering these Islands and their neighbourhood, and nearly as low in another system over the Mediterranean. No alteration taking place in the distribution later in day, barometer falling slightly over these Islands.

Monday, 15th May, 1911.

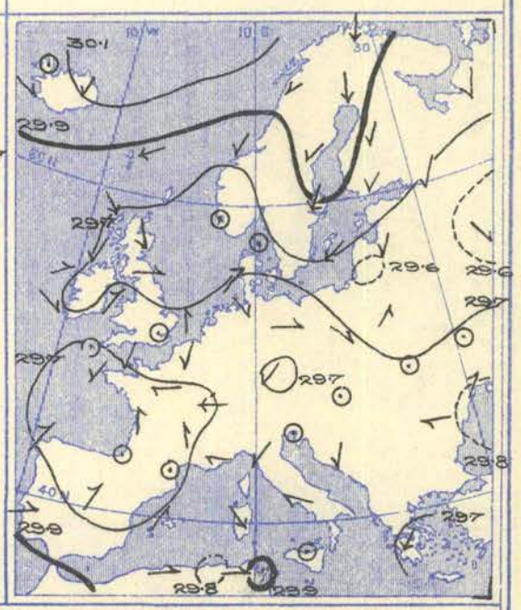
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in these Islands, with mist or fog on several parts of the coast, and rain in the north-east of Scotland, and at Pembroke. Overcast in most French localities, and rainy on the shores of the Gulf of Finland. Fair to bright in almost all other localities. Thunderstorms later in some parts of France and Little Russia, and thunder at Warsaw. About an inch of rain at Copenhagen and Malaga and considerable quantities in various other parts of the Continent. About 0·75 in. in the north-east of Scotland.

Temperature showing no general change. Morning readings above 70° at Patras and above 60° over a large area in southern and central Europe and on the coast of North Germany; below 50° in the north and north-west of these Islands, and as low as 32° in the extreme north of the Continent. Maxima during day below 65° at nearly all our own stations, but above 70° over the major portion of the Continent; touching 79° at Neu-Fahrwasser, 81° in some Hungarian localities, and 88° at Bucharest. Thermometer only rising to 62° at Turin and to 64° at Malaga.

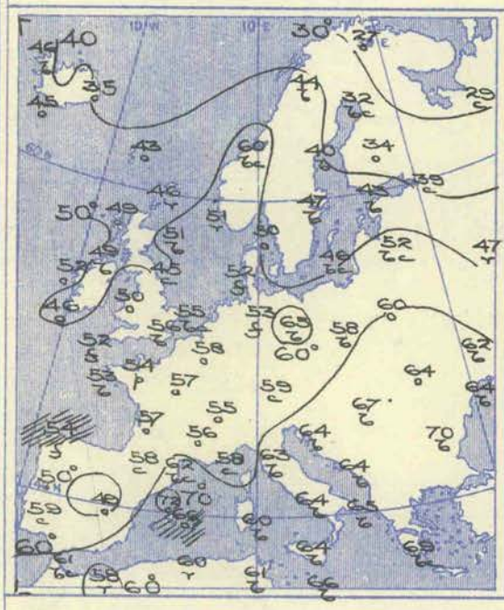
Wind in morning circulating cyclonically generally, but with very little force. Calm reported from all the stations in Iceland and from some in other parts of our area. No great change later over our area as a whole, but Northerly and North-Easterly current increasing in Scandinavia.

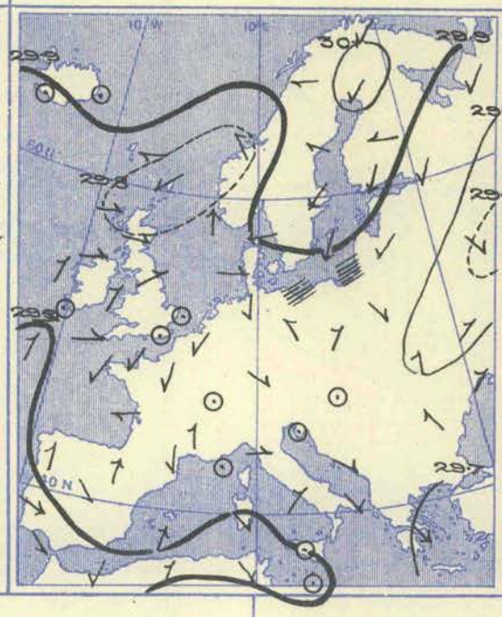
Barometer in morning above 30·1 in. over the Icelandic region and nearly as high at the Azores relatively low in a very large area including the United Kingdom and most of the Continent; gradient very slight generally. No important modification later in day in the general distribution of pressure. Gradient increasing somewhat over the north of the Continent.

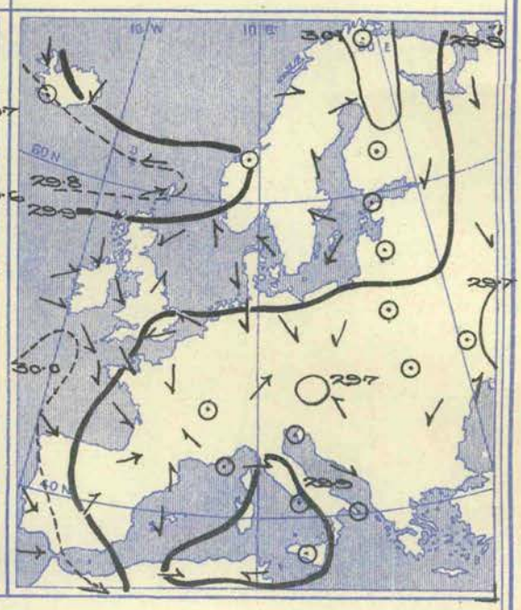
Tuesday, 16th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to fine generally, but overcast in some localities, especially in France and the central countries of the Continent; rain falling at Lerwick, Skudesnaes, Copenhagen and Prague, and showers at Jersey. Rain on the coast of Algeria also. Thunderstorms occurring later over a large area in France, with heavy rain in several places. Heavy rain experienced at Turin and Cagliari, and moderate amounts in several other localities.

Temperature fallen in most regions, but changes not very regular. Morning readings ranging from 72° at Barcelona and nearly 70° at some other southern stations to below 50° in several parts of these Islands, and to below 30° in the extreme north of the Continent. Rising to 70° during day in some parts of England, and also over a wide area in France, the Netherlands and Germany, to above 80° at some Hungarian stations, as well as at Brindisi and Athens, and touching 86° at Bucharest. Maximum only 62° at Turin and 64° at Nice and Monaco.

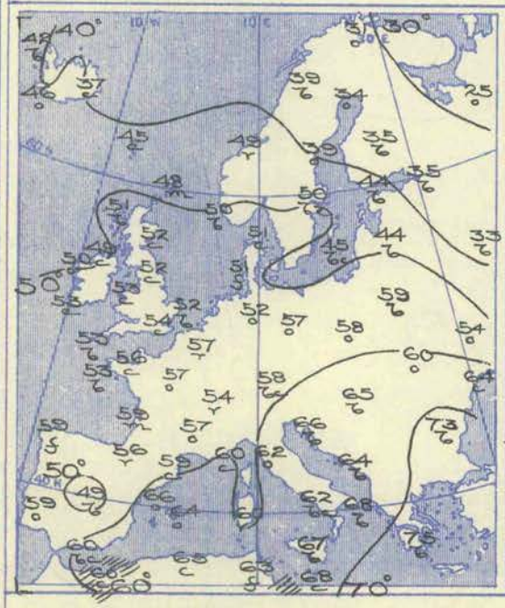
Wind in morning light in force over nearly the whole of our area and variable in direction. Mainly from the Northward in England, and from the Westward in Scotland. Shifting to East or North-East by evening over the greater portion of England and the Channel, but no general current setting in over a large area.

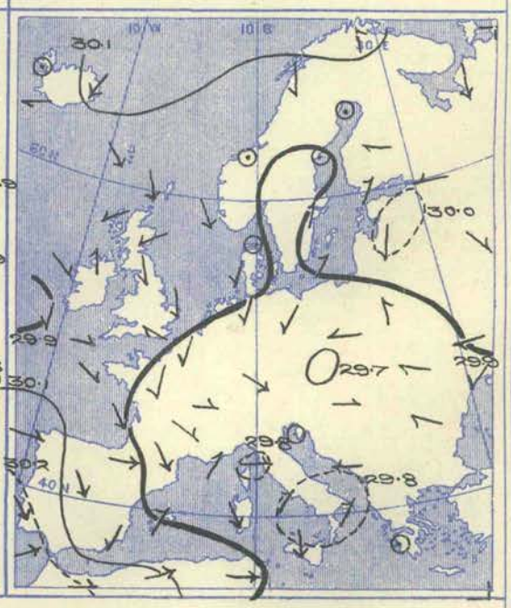
Barometer in morning above 30·1 in. in the north of Scandinavia and also at the Azores; below 29·8 in. in the north of Scotland and the west of Norway, and below 29·6 in. in central Russia. Pressure distribution irregular, and the gradient very slight generally. No important change later in day; readings becoming rather higher in most regions, but a fall of the mercury taking place in Iceland.

Wednesday, 17th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.





Weather in morning rainy in several parts of France, Germany, the north of Italy, and in Corsica and Sardinia, as well as at Christiansund, but fine or fair over our area generally. Heavy rain later in many parts of France, northern Italy, Switzerland, and Austria, and smaller amounts in some other parts of our area. Thunderstorms occurring at Paris and Nantes, and also at Lésina.

Temperature fallen in Norway, Russia, Germany, and in a few other regions, changed little elsewhere. Readings in morning above 60° over nearly the whole of the Mediterranean region, and as high as 75° at Athens; 73° at Bucharest; below 50° in the north of Ireland and in most parts of Scotland, and below 40° in the north-east of our area; only 33° at St. Petersburg and 25° at Archangel. Rising to 70° during day over a considerable portion of England, and to between 70° and 80° at numerous stations in the southern half of Europe, but only touching 59° at Turin. Thermometer rising to 81° at Palma and to 91° at Bucharest.

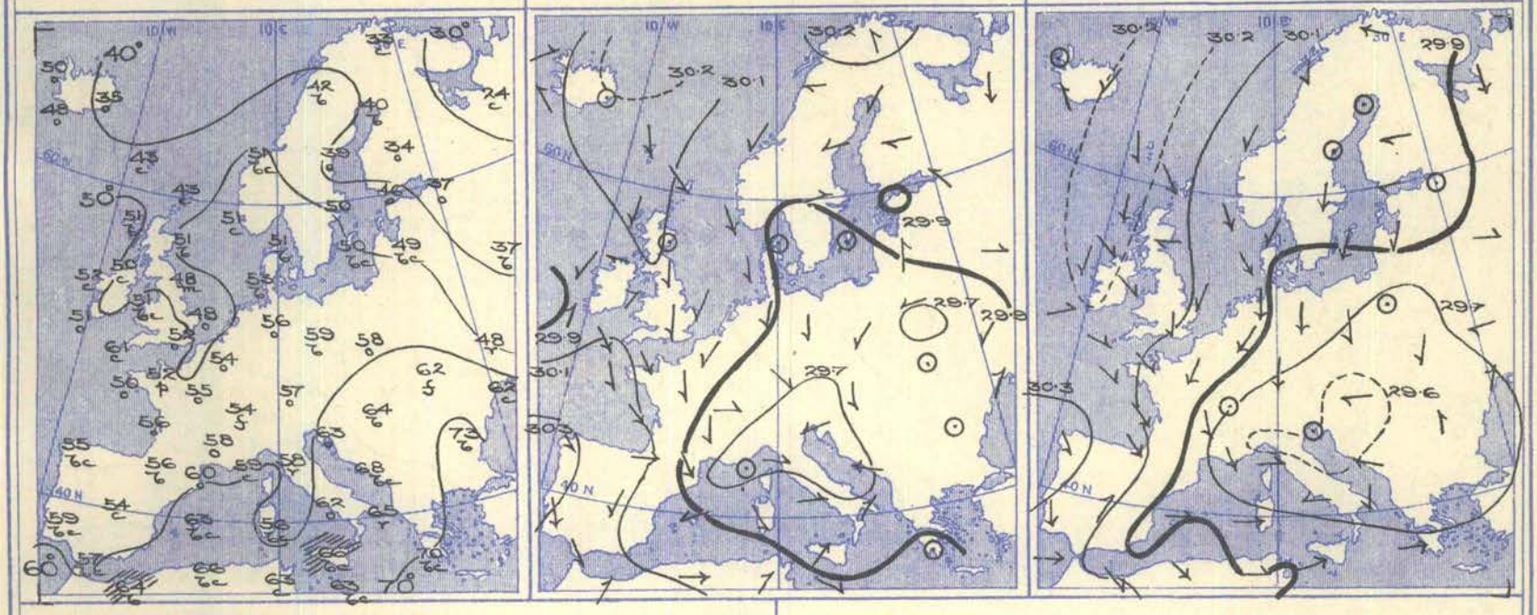
Wind in morning moderate to fresh or strong from the North-Westward in the Spanish Peninsula, strong from various points in Algeria, and strong from the South-Eastward at Malta. Light and variable over our area generally; from the Northward in France and Russia No change of importance during day.

Barometer in morning above 30·2 in. in the Azores and above 30·1 in. in the east of Iceland, and also in a band extending from the northward to Riga; below 29·8 in. in an elongated, shallow depression stretching from France to the Black Sea, and below 29·8 in. to the south of Tunis. General distribution of pressure undergoing little change later, but south-western anticyclonic system extending somewhat towards these Islands and the Bay of Biscay.

Thursday, 18th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy in places over a large area in France, Austria-Hungary, and Italy and also at Portland Bill, Jersey, and Kieff; fair to fine in nearly all other regions. A thunderstorm prevailing at Prague. Very heavy rain experienced in central and eastern France later, about 1·5 in. at Clermont and Belfort, and considerable or large quantities falling in the adjacent parts of Austria, Switzerland, and Italy—about 1·6 in. at Florence.

Temperature fallen in most districts. Readings in morning ranging from 70° or above in the south-east of Europe and above 60° at many stations in the south to below 50° over a large portion of the United Kingdom, to below 40° in the north of the Continent, and to 24° at Archangel. Thermometer remaining below 60° in many parts of this country, and only touching 49° at Lowestoft. Maxima rather low in France, but between 70° and 80° at many stations in central and southern Europe generally, and as high as 81° at Cracow.

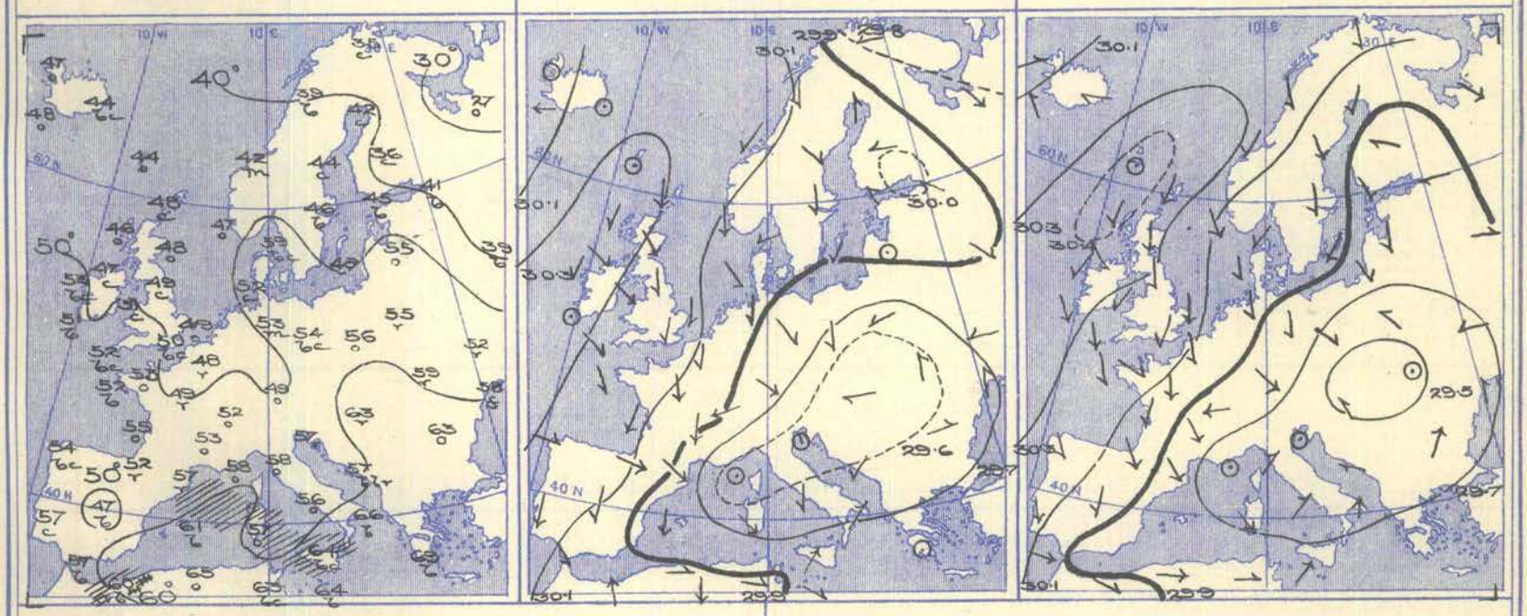
Wind in morning light from some Northerly point over these Islands and their neighbourhood, and strong from west or north-west in the south of France and at some Spanish stations. A moderate to fresh Westerly current general over the Mediterranean, and light winds from various points over central and northern Europe. Northerly wind increasing somewhat in force during day in the south of England and the north of France, and a North-Westerly gale setting in at Bilbao. Little other change.

Barometer in morning above 30·3 in. between Portugal and the Azores, and above 30·2 in. to the northward of Iceland; below 29·7 in. in a large depression of little intensity over central Europe and Italy, and relatively low in the south-west of Ireland. Anticyclone extending in a North-Easterly direction during day and main depression increasing in depth. Gradient growing steeper over France and the Spanish Peninsula.

Friday, 19th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning cloudy or overcast over Great Britain and a large area in central Europe, France, and Italy, as well as in the south of Russia, with rain in a few places, mostly in the south. Fair to very fine in other regions. Considerable or large quantities of rain experienced later in Austria, Poland, and Italy; as much as 1·3 in. at Cracow and 1·4 in. at Warsaw. Smaller amounts measured in some other regions.

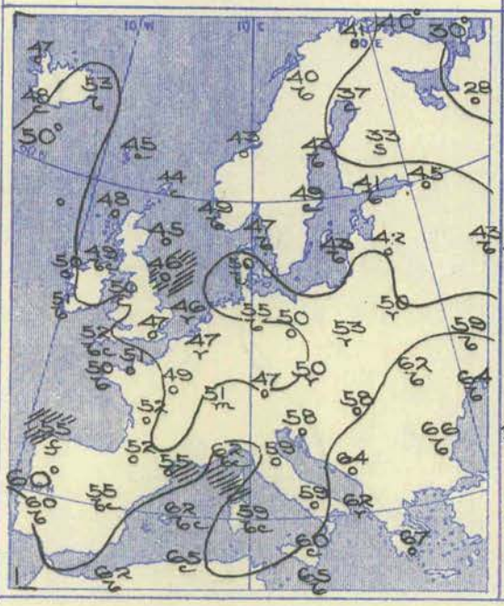
Temperature risen in the north-east of our area, fallen in most other places. Readings in morning 69° in Greece, above 60° at many southern stations, and as high as 60° at Memel; below 50° in several parts of the United Kingdom, the north of France, and in Belgium, below 40° over a wide area in the north of the Continent, and as low as 27° at Archangel. Maxima during day below 60° in almost all parts of Britain, but above 65° at some Irish stations; about 70° in various districts in central Europe and Italy, 75° at Barcelona, in some parts of Algeria, and at Tunis, and 86° at Bucharest.

Wind in morning mainly anticyclonic in the north-west of our area and cyclonic elsewhere, the chief circulation embracing central and southern Europe. Little force generally, but Northerly current fresh to strong at some French stations, a strong North-West breeze prevailing at Cagliari, and a strong breeze from South-West at Palermo. A high wind from North-West blowing at Archangel. Little change during day; a strong wind from the North-Westward setting in at Lisbon and a high wind at Malaga.

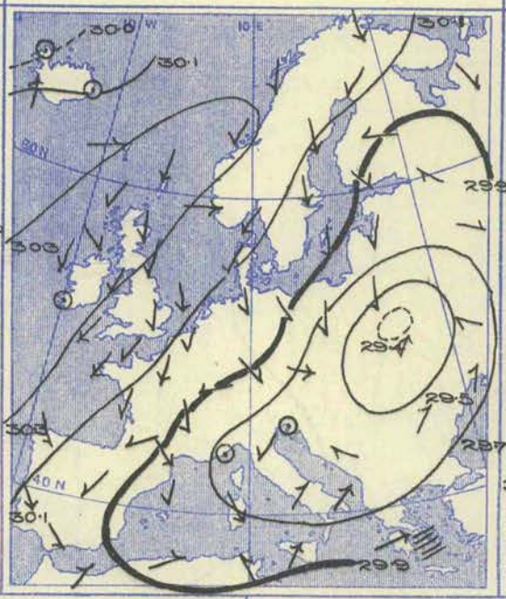
Barometer in morning ranging from above 30·3 in. in a large area extending from the Azores across Ireland to the Faeröe; below 29·8 in. in the extreme north of Russia, and below 29·6 in. in a depression covering Corsica and its vicinity and extending to Transylvania and Poland. No change later in the general distribution of pressure but barometer falling in Poland and Hungary.

Saturday, 20th May, 1911.

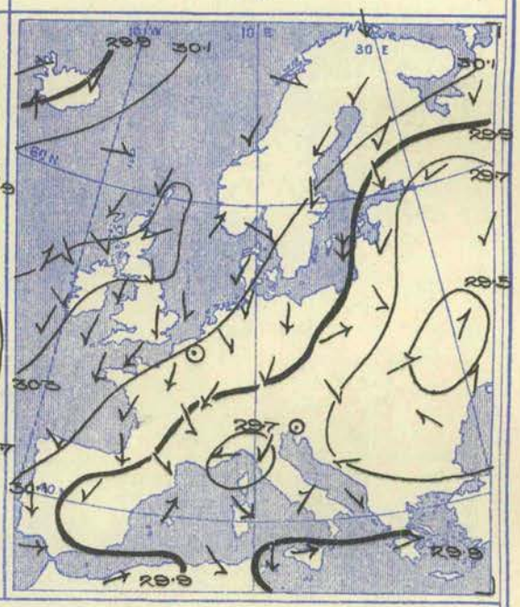
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in Algeria, a large portion of the Peninsula, and in a few districts elsewhere, but generally overcast, with rain at Great Yarmouth, Brussels, Bilbao, some parts of Italy and central Europe, and snow at Kuopio. Rain later in Italy and in a few other regions on the Continent; about 0·7 in. at Florence and 0·8 in. at Gap.

Temperature fallen generally, risen in Norway and Russia. Readings in morning 71° at Sfax, 67° in Greece, and above 60° in several other places on the shores of the Mediterranean, as well as at Lemberg and in the south of Russia. Below 50° in various parts of central Europe, nearly the whole of the United Kingdom and the north of the Continent, and as low as 28° at Archangel. Maxima during day very low in these Islands, only about 50° in the east and south of England; about 60° in many parts of central Europe and France, and above 70° at many stations further south. Thermometer touching 81° at Bucharest and 82° at Pesaro. Minima low at night over these Islands.

Wind in morning mainly Northerly, but drawing into the Southward in Italy and south-eastern and eastern Europe, and a Southerly breeze also prevailing in Iceland. Fresh to strong over the Baltic and Germany, and strong to a gale in the south of Sweden; generally light or moderate elsewhere, but strong at Spurn Head. Similar conditions continuing all day but gale subsiding at Karsltad.

Barometer in morning above 30·3 in. in an anticyclonic system extending from the Azores to Norway; below 29·5 in. in a large depression having its minimum over Poland, and relatively low over the Adriatic and Mediterranean. A brisk decrease of pressure taking place in Iceland during day, and a slight fall in the north and north-west of these Islands. Little change in the general distribution.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	May 16th, 10.53 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	 345°, 2		 10°, 2	 10°, 3	 50°, 3	 120°, 3			2,000	Two theodolites. Cumulus clouds. Balloon lost in clouds. Velocity fell to 1 m.p.s., with large change in direction at 1,700 m.
2	May 20th, 10.30 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	283·6° 65% 20°, 8·9	283·0° 65% 20°, 13	278·5° 75% 30°, 13					277° 75% 30°,	800	Half overcast Alt. St. and St. Cu: none reached—Apparent calm above 800 m., Kite failed to rise on winding in.
3	May 20th, 11.10 a.m. to 12.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	280° 80% 20°, 5	279·5° 80% 20°, 8	276·5° 90% 20°, 11	273° 100% 25°, 12				272° 100% 30°, 13	1,300	Overcast. Clouds at 1,000 m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	—	1	1
Area of Surface (sq. metres) ..	—	5·5	8
Capacity of Balloon (cub. metres)	·045	—	—
Length of Wire (metres)	—	1,300	1,800

South Kensington, London, S.W. *May 24th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 21. TWENTY-FIRST WEEK, SUNDAY, MAY 21ST, TO SATURDAY, MAY 27TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally fair to fine, but in nearly every part of the Kingdom the conditions at times were unsettled. Thunderstorms, accompanied in many instances by extremely heavy falls of rain, occurred at a few places in the south of England on Thursday, and over a large portion of the country on Friday and Saturday.

Temperature was above the normal, and increased generally during the week, the excess was more than 5° in Scotland E. and England N.E. The highest of the maxima occurred at most stations on the 27th, and ranged from 81° in England S.W. (at Shaftesbury) to 69° in Scotland N., and to 66° in Ireland N. The lowest of the minima, which were generally registered very early in the week, varied from 29° in Scotland E. (at Balmoral on the 21st), and 30° in England S.W. to 40° in England N.E. and Ireland S. The lowest grass readings reported were 24° at Llangammarch Wells, 25° at Crathes and Greenwich, and 26° at Balmoral and Burnley.

Mean Temperature of the Sea. In most places the water was rather colder than during the corresponding week of last year. The means for the week ranged from about 55·5° at Seafield and Scilly, to 47° at Aberdeen and Burnmouth.

Rainfall was less than the average in all districts, the fall being very slight in England E. In several places in various parts of the Kingdom the week was rainless. Some extremely heavy amounts accompanied the thundery conditions towards the end of the week. On the 25th 1·8 in. fell at Wokingham and 1·5 in. at Westbourne (Sussex); on the 26th or 27th about 1·5 in. fell at Belvoir Castle, Bromyard and Claypole (Lincs.), and 2·0 in. at Great Billing; while on Saturday the newspapers reported flooding rains in the S.W. of England, at Bere Alston (Devon) at least as much as 2½ in. was collected in the gauge within 1½ hour.

Bright Sunshine was more than the average in most districts, but only equal to it in England S.E. and Ireland N., and slightly less in Ireland S. The percentage of the possible duration ranged from 68 in the English Channel, 55 in England S.W. and 53 in Scotland W., to 40 in Ireland N., and to 35 in Scotland N.

Barometer and Wind. During the greater part of the week pressure was high on the Atlantic to the south-westward of the United Kingdom, and also in the north or north-east of Europe, while a "Col" generally extended between the two regions across these islands. The wind was more often from the Southward or South-westward over this country than from any other point, and on Thursday it blew strongly on the western coasts, reaching a gale at Malin Head. Both at the beginning and late in the week, however, the direction was either variable or from some point between north-west and north-east. Towards the close of the week a shallow low pressure system over France extended its borders northwards over nearly the whole of England.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 156.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate
	Rainfall ...	Moderate	Light	Light	Very light	Moderate	Moderate	Light	Light	Light	Moderate	Light	Nought
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 12 weeks from Mar. 5th, 1911.	Warmth ...	3 * 1	4 * 2	6 * 1	5 * 1	5 * 1	3 * 1	4 * 3	4 * 2	3 * 2	2 * 1	5 * 3	2 * 2
	Rainfall ...	4 * 5	3 * 4	2 * 7	2 * 3	2 * 5	3 * 3	3 * 7	3 * 6	5 * 6	3 * 6	4 * 5	3 * 5
	Sunshine ...	5 * 3	3 * 5	0 * 5	1 * 3	0 * 5	3 * 4	4 * 3	3 * 2	3 * 3	4 * 4	3 * 3	3 * 5

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	5 * 5	3 * 4	7 * 1	5 * 3	5 * 5	4 * 6	4 * 4	4 * 2	3 * 5	4 * 5	3 * 5	3 * 4
	Rainfall ...	5 * 4	2 * 3	4 * 4	7 * 3	4 * 4	5 * 5	4 * 5	4 * 5	2 * 4	3 * 4	6 * 4	4 * 3
	Sunshine ...	6 * 1	3 * 2	2 * 5	4 * 3	6 * 4	5 * 5	3 * 4	4 * 3	4 * 3	2 * 5	3 * 5	4 * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FIRST WEEK—May 21st to May 27th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	69	36	59·4	45·8	52·2	+ 3·5	71	+ 19	0	− 4	3	− 1	0·52	−0·05	41	+ 2	35	+ 2
Eastern																		
1. SCOTLAND, EAST	74	29	65·2	45·9	55·0	+ 5·4	91	+ 32	0	− 4	2	− 1	0·13	−0·38	56	+ 1	48	+11
2. ENGLAND, N.E.	78	40	65·5	48·2	56·4	+ 5·7	101	+ 39	0	− 1	1	− 2	0·15	−0·25	49	+ 4	44	+ 4
3. ENGLAND, EAST	77	32	67·4	47·8	57·0	+ 4·3	105	+ 28	0	− 1	1	− 2	0·01	−0·43	52	+ 4	46	+ 3
4. MIDLAND COUNTIES	77	34	67·5	46·7	56·5	+ 3·9	102	+ 25	0	− 2	1	− 2	0·32	−0·20	46	+ 3	41	+ 3
5. ENGLAND, S.E.	76	32	65·3	48·2	56·3	+ 2·3	100	+ 15	0	0	1	− 2	0·29	−0·15	48	0	44	0
Western																		
6. SCOTLAND, WEST	74	36	63·1	46·2	54·2	+ 3·0	85	+ 18	0	− 2	2	− 2	0·14	−0·50	60	+ 14	53	+12
7. ENGLAND, N.W.	74	32	63·9	47·4	55·2	+ 3·1	92	+ 20	0	− 1	1	− 2	0·17	−0·35	55	+ 9	49	+ 8
8. ENGLAND, S.W.	81	30	64·3	46·8	55·0	+ 1·9	91	+ 12	0	− 1	1	− 2	0·17	−0·33	60	+ 12	55	+11
9 IRELAND, NORTH	66	34	59·9	46·2	52·6	+ 1·0	74	+ 6	0	− 1	2	− 2	0·27	−0·27	45	0	40	0
10. IRELAND, SOUTH	71	40	62·3	48·7	55·1	+ 2·1	92	+ 15	0	0	2	− 1	0·20	−0·37	47	− 1	43	− 1
11. ENGLISH CHANNEL	78	38	62·9	48·6	55·3	+ 1·0	93	+ 7	0	0	0	− 3	0·00	−0·49	73	+ 17	68	+16

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 12 Weeks, March 5th to May 27th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	75	22	*	*	*	*	340	+ 12	196	−27	44	−10	8·65	−0·67	376	+ 9	32	+ 1
Eastern																		
1. SCOTLAND, EAST	74	17	*	*	*	*	394	− 2	203	−37	47	+ 2	5·17	−0·62	374	−26	32	− 2
2. ENGLAND, N.E.	78	26	*	*	*	*	455	+ 56	150	−24	39	− 2	3·49	−1·17	360	−71	31	− 6
3. ENGLAND, EAST	77	22	*	*	*	*	531	+ 18	156	−26	36	− 3	4·27	−0·22	425	−21	37	− 2
4. MIDLAND COUNTIES	77	22	*	*	*	*	532	+ 5	171	−25	32	− 6	3·55	−1·48	341	−63	30	− 6
5. ENGLAND, S.E.	76	24	*	*	*	*	542	− 12	134	+12	34	− 3	4·81	+0·11	437	−11	38	− 1
Western																		
6. SCOTLAND, WEST	76	20	*	*	*	*	468	+ 41	165	+ 3	36	−10	6·84	−1·52	418	− 2	36	0
7. ENGLAND, N.W.	74	26	*	*	*	*	493	+ 45	130	− 5	34	− 8	4·95	−1·17	410	− 1	36	0
8. ENGLAND, S.W.	81	22	*	*	*	*	521	− 4	124	+22	35	− 6	6·41	−0·19	447	− 6	39	− 1
9. IRELAND, NORTH	74	22	*	*	*	*	461	+ 3	134	+ 6	37	−13	5·02	−1·86	408	+ 9	36	+ 1
10. IRELAND, SOUTH	74	23	*	*	*	*	583	+ 37	124	+30	46	+ 1	6·80	−0·58	424	−16	37	− 1
11. ENGLISH CHANNEL	78	28	*	*	*	*	609	+ 4	54	+24	43	0	5·37	−0·14	512	−27	45	− 2

THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, January 1st to May 27th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	75	14	*	*	*	*	429	+ 41	415	−138	90	−10	21·06	+0·78	462	+ 7	28	0
Eastern																		
1. SCOTLAND, EAST	74	11	*	*	*	*	479	+ 15	487	−130	81	+ 1	9·50	−1·28	517	− 7	31	0
2. ENGLAND, N.E.	78	19	*	*	*	*	579	+100	371	−104	67	− 7	6·06	−2·05	494	− 64	29	− 4
3. ENGLAND, EAST	77	16	*	*	*	*	643	+ 40	409	−112	72	− 1	7·53	−0·33	572	− 14	34	− 1
4. MIDLAND COUNTIES	77	14	*	*	*	*	654	+ 23	415	−117	59	−12	6·12	−3·09	470	− 53	28	− 3
5. ENGLAND, S.E.	76	16	*	*	*	*	645	− 27	361	− 20	63	− 6	7·93	−1·22	589	+ 7	34	0
Western																		
6. SCOTLAND, WEST	76	18	*	*	*	*	591	+ 75	347	− 77	76	−10	16·23	−0·98	528	+ 2	31	0
7. ENGLAND, N.W.	74	17	*	*	*	*	604	+ 62	314	− 72	66	−12	10·24	−1·55	536	+ 12	32	+ 1
8. ENGLAND, S.W.	81	13	*	*	*	*	634	− 42	297	− 4	68	− 9	11·38	−2·22	589	+ 1	34	0
9. IRELAND, NORTH	74	18	*	*	*	*	614	+ 31	302	− 43	74	−18	10·42	−2·99	540	+ 23	32	+ 1
10. IRELAND, SOUTH	74	18	*	*	*	*	772	+ 40	295	+ 36	83	0	11·74	−3·19	563	− 12	33	− 1
11. ENGLISH CHANNEL	78	28	*	*	*	*	797	− 27	135	+ 26	76	− 8	8·84	−2·58	670	− 37	39	− 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*58*	*25th*	*44*	*22nd*	*54·8*	*45·8*	*50·0*	—	*56*	*0*	*4*	*0·80*	—	*33·0*	—	*27*	—	*Baltasound.*
	a Lerwick	56	25th	41	21st	53·7	46·7	50·0	+ 4·1	56	0	2	0·63	—	46·8	+ 6·8	39	+ 6	Deerness.
	a Stornoway	61	27th	41	21st, 26th	56·0	44·6	50·0	+ 2·0	56	0	4	0·35	− 0·21	31·8	− 12·1	27	− 10	Stornoway.
	a *Castlebay, Barra Isd.*	*56*	*27th*	*43*	*21st, 26th*	*53·7*	*46·7*	*50·0*	− *1·5*	*56*	*0*	*3*	*0·20*	—	*39·7*	—	*34*	—	*Castlebay.*
	a Wick	69	25th	43	21st	60·4	46·3	52·9	+ 4·9	76	0	3	0·19	− 0·25	*	*	*	*	*
	b, Mainland. p Strathpeffer	69	25th	40	21st	63·7	45·7	54·2	+ 5·1	85	0	3	0·11	− 0·33	47·3	+ 8·4	40	+ 7	Strathpeffer.
	p Glencarron	64	25th	37	21st	58·4	44·6	51·1	+ 2·9	64	0	3	0·80	− 0·20	*	*	*	*	*
	p Fort Augustus	69	25th	36	21st	61·5	45·6	53·1	+ 3·9	78	0	3	0·35	− 0·14	38·2	+ 7·2	33	+ 6	Fort Augustus.
	p Fort William	68	25th, 26th	41	21st	62·4	46·8	54·2	+ 3·6	85	0	4	1·23	+ 0·40	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	73	25th	35	21st	64·5	45·3	54·3	+ 4·6	86	0	1	0·01	− 0·45	*49·7*	—	*43*	—	*Gordon Castle.*
	a Nairn	73	25th	34	21st	64·0	44·6	53·7	+ 3·7	82	0	2	0·03	− 0·35	53·8	—	46	—	Nairn.
	a Aberdeen	69	24th	37	21st	63·7	47·1	54·9	+ 5·8	90	0	3	0·14	− 0·32	52·0	+ 9·0	44	+ 8	Aberdeen.
	a Balmoral S	70	23rd	29	21st	68·3	43·0	54·9	+ 7·7	90	0	0	0·00	− 0·53	54·7	—	47	—	Crathes S.
	p Crieff S	74	27th	37	21st	67·4	46·6	56·4	+ 5·2	101	0	2	0·04	− 0·54	65·2	—	56	—	Balruddery.
	a Leith S	69	25th	39	21st	65·1	48·9	56·5	+ 5·7	102	0	2	0·28	− 0·12	*	*	*	*	*
	p West Linton S	68	27th	32	21st	62·6	44·1	52·8	+ 4·9	76	0	3	0·44	—	*52·5*	—	*46*	—	*West Linton.*
	p Marchmont S	69	25th	38	21st	66·0	47·4	56·1	+ 7·3	99	0	3	0·12	− 0·42	53·3	+12·3	46	+11	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	77	25th	40	22nd	67·0	48·2	57·0	+ 7·7	105	0	1	0·01	− 0·47	54·4	—	48	—	Cockle Park.
	a Shields	73	25th	42	21st	62·9	48·6	55·3	+ 5·8	93	0	2	0·04	− 0·36	*38·2*	+ *5·2*	*34*	+ *5*	*Newcastle.*
	p Durham	71	25th	41	21st, 22nd	64·6	47·7	55·6	+ 5·5	95	0	2	0·04	− 0·38	43·4	+ 4·2	38	+ 4	Durham.
	p Rounton M	73	25th	41	21st, 22nd	65·6	48·0	56·3	+ 7·0	100	0	2	0·38	− 0·06	*	*	*	*	*
	p Scarborough M	73	25th	44	21st, 22nd	63·9	49·4	56·2	+ 5·7	99	0	0	0·00	− 0·43	52·0	—	46	—	Scarborough.
	p York	77	27th	41	22nd	68·7	49·0	58·3	+ 6·0	114	0	1	0·16	− 0·29	44·3	+ 3·7	39	+ 3	York.
	b, South. a Spurn Head	65	24th	44	21st	60·1	48·7	54·1	+ 3·2	85	0	0	0·00	− 0·36	*	*	*	*	*
	a Lincoln	76	27th	41	22nd	68·4	48·0	57·6	+ 4·8	109	0	1	0·14	− 0·28	52·0	—	46	—	Skegness.
	a Fulbeck	78	27th	41	22nd	68·7	46·4	56·9	+ 5·0	104	0	1	0·56	+ 0·12	49·4	—	44	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	77	25th	38	22nd	68·4	49·0	58·1	+ 7·0	113	0	1	0·01	—	52·2	—	47	—	Cromer.
	p Hillington M	77	27th	35	22nd	70·3	46·2	57·5	+ 5·3	109	0	1	0·01	− 0·43	53·9	+ 6·8	48	+ 6	Hillington.
	a Yarmouth	71	24th	39	22nd	61·3	49·0	54·8	+ 3·6	90	0	1	0·03	− 0·36	57·9	—	52	—	Yarmouth.
	a Norwich	75	25th, 27th	35	22nd	69·6	47·8	58·1	+ 6·4	113	0	1	0·03	—	*	*	*	*	*
	p Geldeston	73	25th	32	22nd	68·2	46·6	56·8	+ 4·9	104	0	1	0·03	− 0·37	60·6	+10·8	55	+10	Geldeston.
	p Cambridge	75	27th	33	22nd	68·5	46·3	56·7	+ 3·6	103	0	0	0·00	− 0·43	39·5	− 7·0	36	− 6	Cambridge.
	b, South. a *Felixstowe*	*71*	*24th*	*39*	*22nd*	*63·6*	*49·0*	*55·9*	+ *3·7*	*97*	*0*	*1*	*0·01*	—	*64·0*	—	*58*	—	*Felixstowe.*
	a Clacton-on-Sea	73	24th	40	22nd	64·7	49·7	56·8	+ 5·1	104	0	0	0·00	—	59·5	—	54	—	Clacton.
	a Rothamsted	74	27th	33	22nd	67·2	45·8	55·9	+ 3·8	97	0	1	0·02	− 0·43	43·5	− 1·8	39	− 2	Rothamsted.
	a *Shoeburyness*	*69*	*24th, 25th*	*42*	*22nd*	*65·3*	*49·0*	*56·7*	+ *2·5*	*103*	*0*	*0*	*0·00*	− *0·27*	*56·8*	—	*52*	—	*Southend.*
	p Tottenham	76	27th	38	22nd	68·6	49·7	58·6	+ 5·2	116	0	0	0·00	—	44·6	—	41	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	72	25th	40	21st	65·4	48·4	56·4	+ 6·1	101	0	1	0·09	− 0·40	45·6	—	40	—	Harrogate.
	a Bawtry	75	25th	38	22nd	69·3	48·1	58·1	+ 5·6	113	0	1	0·33	− 0·10	44·0	+ 5·0	39	+ 5	Worksop.
	p *Buxton* M	*71*	*25th*	*31*	*21st*	*65·2*	*44·7*	*54·3*	+ *5·7*	*86*	*0*	*3*	*0·17*	− *0·55*	*50·8*	—	*45*	—	*Buxton.*
	a Nottingham	75	27th	39	22nd	68·0	46·1	56·4	+ 4·0	101	0	1	0·56	+ 0·14	50·0	—	45	—	Nottingham.
	p Birmingham, Edgbsn	71	25th	42	21st	66·8	48·3	57·0	+ 4·9	105	0	2	0·19	− 0·29	40·5	—	37	—	Birmingham.
	a Raunds M	77	27th	36	22nd	68·7	45·8	56·6	+ 4·5	102	0	2	0·44	—	*	*	*	*	*
	a Oxford	73	27th	40	22nd	66·6	49·1	57·3	+ 4·0	107	0	1	0·31	+ 0·41	40·7	− 4·3	37	− 4	Oxford.
	b, West. a Cheadle M	71	25th, 27th	39	21st	67·7	48·9	57·7	+ 6·9	110	0	2	0·14	− 0·36	45·4	—	41	—	Sheffield.
	p Shrewsbury	73	25th	36	21st	68·5	44·3	55·7	+ 2·7	96	0	1	0·34	—	*	*	*	*	*
	a Hereford M	72	26th	34	21st	68·2	43·7	55·2	+ 2·1	92	0	1	0·48	− 0·00	*	*	*	*	*
	a Cirencester	71	27th	36	21st, 22nd	66·4	44·7	54·9	+ 3·2	90	0	2	0·05	− 0·43	44·1	− 2·9	40	− 3	Cirencester.
	a Bath	73	26th, 27th	37	21st, 22nd	67·3	46·6	56·3	+ 2·9	100	0	1	0·14	− 0·31	54·3	—	49	—	Bath.
															51·2	—	*49*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	74	25th	34	22nd	67·0	48·5	57·2	+ 3·4	106	0	1	0·03	− 0·36	37·5	− 8·6	34	− 8	Kew.
	a Marlborough	71	27th	32	22nd	66·1	44·5	54·7	+ 4·3	89	0	2	0·28	− 0·16	42·3	− 0·5	39	0	Marlborough.
	a Margate	72	25th	45	21st, 22nd	66·7	50·2	58·0	+ 5·3	112	0	0	0·00	− 0·35	51·8	+ 6·7	47	+ 6	Margate.
	a Wisley, Surrey	76	27th	36	22nd	67·2	47·5	56·8	+ 2·9	104	0	2	0·03	—	41·7	—	38	—	Wisley.
	a Swarraton M	73	27th	32	22nd	65·6	46·2	55·3	+ 3·4	93	0	2	1·04	+ 0·58	32·8	—	30	—	Worthing.
	a Tunbridge Wells M	76	26th, 27th	38	22nd	68·1	47·0	56·9	+ 4·4	104	0	1	0·13	− 0·30	60·3	+13·0	55	+12	Tunbridge Wells.
	a Dungeness	66	27th	45	21st, 22nd	59·4	48·0	53·4	+ 0·7	80	0	1	0·01	− 0·27	56·2	—	51	—	Littlestone.
	p Hastings	74	27th	44	21st, 22nd	63·6	50·1	56·5	+ 3·3	102	0	1	0·02	− 0·34	*60·4*	+ *6·3*	*55*	+ *6*	*Hastings.*
	p Southampton	74	27th	40	22nd	67·1	49·6	57·8	+ 2·8	111	0	2	0·98	+ 0·54	47·7	− 2·5	43	− 2	Southampton.
	a Ventnor	71	27th	44	22nd	62·6	50·2	56·0	+ 2·1	98	0	2	0·33	− 0·06	49·5	− 1·9	45	− 2	Ventnor.
																			Eastbourne.
LONDON	a *Westminster*	*75*	*27th*	*38*	*22nd*	*68·4*	*50·3*	*58·8*	+ *4·7*	*118*	*0*	*1*	*0·01*	− *0·39*	*42·2*	+ *3·7*	*38*	+ *3*	*Westminster.*
	a *Greenwich*	*78*	*25th*	*35*	*22nd*	*71·4*	*48·1*	*59·1*	+ *4·8*	*120*	*0*	*1*	*0·04*	− *0·36*	*45·3*	+ *2·5*	*41*	+ *2*	*Greenwich.*
6. a, SCOTLAND, W.	a Poltalloch S	61	26th	38	21st	59·3	46·1	52·3	+ 1·1	72	0	4	0·35	− 0·28	*	*	*	*	*
	p Glasgow	68	27th	41	21st	63·8	49·0	56·0	+ 5·0	98	0	2	0·09	− 0·49	53·0	+15·4	46	+13	Glasgow.
	p Rothesay S	71	27th	40	27th	64·7	47·1	55·4	+ 4·3	94	0	3	0·23	− 0·42	*	*	*	*	*
	a Kilmarnock	66	26th	36	21st	61·6	45·1	52·9	+ 1·7	76	0	3	0·10	—	*55·1*	—	*48*	—	*Kilmarnock.*
	a Colmonell S	64	23rd, 27th	37	21st	62·4	44·6	53·0	+ 1·6	77	0	1	0·07	− 0·50	*	*	*	*	*
	p Dumfries S	74	26th, 27th	39	21st	66·0	48·0	56·5	+ 4·5	102	0	1	0·04	− 0·53	*58·4*	—	*51*	—	*Dumfries.*
	p Cally, Gatehouse S	73	27th	37	21st	65·3	45·1	54·6	+ 3·4	88	0	2	0·17	− 0·53	*	*	*	*	*
	b, ISLE OF MAN p Douglas	66	26th, 27th	41	22nd	61·4	44·9	52·7	+ 1·9	75	0	1	0·05	− 0·52	67·3	+15·9	60	+14	Douglas.
															60·8	—	54	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	72	26th	36	21st	64·3	46·3	54·8	+ 4·3	90	0	3	0·40	− 0·16	54·9	—	48	—	Aspatria.
	p Newton Rigg	72	27th	32	21st	65·6	45·5	55·0	+ 5·3	91	0	2	0·13	− 0·41	48·0	+ 2·3	42	+ 2	Newton Rigg.
	p Stonyhurst	71	27th	35	21st	64·4	47·3	55·3	+ 3·9	93	0	1	0·69	+ 0·06	44·8	+ 0·2	40	0	Stonyhurst.
	p Blackpool M	68	25th, 26th	36	21st	62·1	47·1	54·2	+ 2·5	85	0	1	0·02	− 0·47	59·1	+12·8	52	+11	Blackpool.
	p M'nch'ster, Prestwich	73	25th, 27th	36	21st	68·0	47·9	57·4	+ 5·9	108	0	2	0·18	− 0·39	*38·6*	− *0·8*	*35*	− *1*	*Prestwich.*
	a Liverpool (Bidston)	73	25th	42	21st	63·1	48·9	55·6	+ 3·5	95	0	0	0·00	− 0·45	*61·9*	—	*55*	—	*Liverpool.*
	a Hawarden Bridge	74	25th	38	21st	64·8	47·8	55·8	+ 2·6	97	0	0	0·00	− 0·41	*60·2*	+11·4	*53*	+10	*Southport.*
															69·6	—	*62*	—	*Rhyl.*
	b, NORTH WALES p Llandudno M	69	25th	42	21st	64·0	49·6	56·4	+ 4·1	101	0	1	0·02	− 0·41	68·7	+21·3	61	+19	Llandudno.
	a Holyhead	62	22nd	44	21st	58·3	47·9	52·8	+ 1·4	76	0	1	0·07	− 0·36	53·2	—	48	—	Aberdovey.
	p Bettws-y-Coed	70	26th	36	21st	64·4	45·3	54·3	+ 2·2	86	0	2	0·22	—	53·0	—	47	—	Bettws-y-Coed.
															55·1	—	50	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	71	26th	30	21st	65·7	41·6	52·9	+ 2·1	78	1	3	0·69	—	42·4	—	38	—	Llangammarch Wells.
	a Pembroke	69	26th	43	21st	59·0	48·0	53·2	+ 1·7	78	0	0	0·00	− 0·41	60·3	+ 9·4	54	+ 8	Pembroke.
	p Cardiff	72	26th	38	21st	64·5	46·6	55·0	+ 1·4	91	0	3	0·05	− 0·50	*54·7*	—	*50*	—	*Cardiff.*
															62·4	+*10·8*	*56*	+*10*	*Tenby.*
	b, ENGLAND, S.W. a Clifton	73	25, 26, 27th	41	21st	66·8	49·1	57·4	+ 3·4	108	0	1	0·05	− 0·45	*59·2*	—	*54*	—	*Clifton.*
	a Shaftesbury M	81	27th	40	21st	66·8	47·4	56·5	+ 5·2	102	0	1	0·04	− 0·44	*	*	*	*	*
	a Arlington	72	26th, 27th	36	21st	64·6	44·7	54·1	+ 2·9	85	0	0	0·00	− 0·63	71·7	+20·9	66	+19	Newquay.
	a Cullompton M	76	26th	34	21st	69·2	44·2	56·0	+ 2·9	98	0	2	0·83	+ 0·36	49·0	+ 2·3	45	+ 2	Cullompton.
	a Portland Bill	66	27th	46	21st, 22nd	58·7	49·6	53·9	+ 1·1	83	0	0	0·00	—	*69·4*	—	*64*	—	*Weymouth.*
	p Plymouth	73	26th	41	21st	64·7	47·8	55·7	+ 1·7	96	0	1	0·06	− 0·40	67·1	+16·2	62	+15	Plymouth.
	p Falmouth	70	27th	45	21st, 22nd	63·1	49·0	55·6	+ 2·6	95	0	0	0·00	− 0·49	73·5	+19·2	67	+18	Falmouth.
															75·6	—	*69*	—	*Salcombe.*
															78·6	+*26·3*	*72*	+*24*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	61	24th	47	21st, 22nd	56·4	48·7	52·3	+ 2·1	72	0	2	0·27	− 0·20	*	*	*	*	*
	a Blacksod Point	58	22, 23, 24th	39	21st, 26th	56·9	44·1	50·1	− 1·6	57	0	3	0·59	− 0·01	*	*	*	*	*
	p Markree Castle	64	24th	34	21st	61·2	43·0	51·6	+ 0·8	67	0	2	0·33	− 0·27	40·8	− 1·9	36	− 2	Markree Castle.
	a Birr Castle	66	21st	42	21st, 27th	62·7	46·9	54·3	+ 2·3	86	0	2	0·17	− 0·33	*40·8*	− *1·3*	*36*	− *1*	*Birr Castle.*
	b, East. a Armagh	66	21st	40	21st, 27th	62·6	46·7	54·2	+ 3·1	85	0	3	0·21	− 0·37	48·4	+ 6·2	43	+ 6	Armagh.
	a Donaghadee	64	22nd, 23rd	42	21st	59·7	47·6	53·3	+ 2·3	79	0	1	0·02	− 0·50	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City	70	24th	41	21st	65·7	50·5	57·6	+ 4·1	109	0	0	0·00	− 0·47	61·3	+13·3	55	+12	Phœnix Park.
	a Kilkenny	67	24th, 27th	40	21st	64·6	48·6	56·1	+ 4·1	99	0	2	0·11	− 0·39	*	*	*	*	*
	a Waterford	71	27th	40	21st	63·6	48·7	55·7	+ 3·0	96	0	2	0·12	− 0·42	*	*	*	*	*
	a Birr Castle	66	21st	42	21st, 27th	62·7	46·9	54·3	+ 2·3	86	0	2	0·17	− 0·33	49·8	− 1·3	36	− 1	Birr Castle.
	b, West. a Foynes	64	24th	42	26th	59·3	47·9	53·3	+ 0·2	79	0	6	0·34	− 0·16	*	*	*	*	*
	a Cahir M	70	22nd	42	21st	65·7	49·1	56·9	+ 4·4	104	0	2	0·15	—	*	*	*	*	*
	a Killarney	67	27th	43	26th	61·7	48·5	54·7	+ 2·4	89	0	3	0·41	− 0·26	*	*	*	*	*
	a Valencia	59	21st, 27th	43	26th	57·1	48·1	52·3	− 0·4	72	0	4	0·48	− 0·20	43·9	− 3·9	40	− 4	Valencia.
	a Roche's Point	67	27th	47	21st	60·6	50·3	55·1	+ 2·4	92	0	1	0·06	− 0·49	42·6	—	39	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	62	26th	44	21st, 23rd	60·1	48·0	53·7	+ 0·3	82	0	0	0·00	− 0·37	83·3	+28·8	76	+26	Scilly.
	a Jersey, St. Aubins	78	27th	44	25th	64·7	49·6	56·7	+ 2·1	103	0	0	0·00	− 0·45	65·1	+ 8·1	60	+ 8	St. Heliers.
	a Guernsey	73	27th	38	22nd	63·9	48·3	55·6	+ 1·8	95	0	0	0·00	− 0·44	71·7	+12·7	66	+12	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 36·8 hrs. (−13·9 hrs.), 34 % (−13 %); Bournemouth, 71·4 hrs., 65 %; Bognor, hrs., %.*

For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	50·2	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	47·9
	Crathes	1	25	54·3	49·0
	Balmoral	1	26	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	34	53·9	—
2.	Cockle Park	0	37	56·9	50·7
	Durham	0	35	—	—
	York	—	—	54·4	50·1
	Hull	0	35	55·0	48·3
	Lincoln	—	—	54·7	49·9
	Rauceby	0	32	57·9	51·1
3.	Norwich	1	30	—	—
	Yarmouth	—	—	57·1	53·3
	Lowestoft	0	32	55·8	51·5
	Cambridge	1	30	56·1	52·4
	Clacton-on-Sea ..	1	28	54·9	52·5
	Southend	0	35	57·0	—
	Tottenham	0	32	—	53·0

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	39	52·2	50·1
	Huddersfield ..	0	33	54·6	48·1
	Buxton	1	27	53·9	47·8
	Sheffield	0	37	53·9	48·5
	Nottingham.. ..	0	36	56·3	50·6
	Birmingham.. ..	1	28	52·2	48·0
	Oxford	0	—	—	—
	Hereford	1	29	—	—
	Cirencester	0	31	54·6	50·6
	Bath	—	—	57·1	53·3
5.	Margate	0	44	55·6	51·5
	Greenwich	1	25	—	—
	Westminster ..	0	36	—	—
	Kew	1	27	55·4	51·4
	Canterbury	0	43	55·4	53·2
	Tunbridge Wells ..	0	33	57·1	—
	Wisley	1	28	55·5	52·1
	Worthing	0	34	56·8	52·9
	Portsmouth	0	32	57·2	53·9
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	50·7
	Colmonell	0	34	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	32	56·1	51·6
	Douglas	0	39	—	—
7.	Aspatria	0	32	55·0	49·1
	Newton Rigg ..	1	27	53·7	48·3
	Burnley	1	26	53·8	48·4
	Southport	1	27	58·3	53·9
	Manchester City ..	0	36	56·0	51·5
	Bettws-y-Coed ..	0	35	54·1	50·3
8.	Llangammarch Wells	2	24	53·7	49·0
	Cardiff	0	34	56·3	51·7
	Clifton	0	40	—	—
	Plymouth	1	30	58·5	—
9.	Armagh	0	32	56·2	51·8
	Markree	3	29	58·1	51·2
10.	Dublin, Trin. Coll. ..	1	29	56·6	52·4
11.	Guernsey, Brooklyn	1	27	56·8	52·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	49	48	48·3
	Kirkwall	52	52	52·0
	Wick	48	47	47·6
SCOTLAND, E.	Cromarty	56	50	52·8
	Pennan Bay	49	47	48·1
	Aberdeen, Cove Bay ..	47	47	47·0
ENGLAND, N.E.	Burnmouth, Berwick ..	48	46	47·0
	Scarborough	57	44	49·8
ENGLAND, E.	Shipwash Lightship ..	54	51	52·6
	Margate‡	57	49	53·2
ENGLAND, S.E.	Eastbourne‡	—	—	—

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	55	50	51·8
	Ballantrae	52	49	50·1
ENGLAND, N.W.	Port Erin	52	49	50·7
	Newquay	54	53	53·6
ENGLAND, S.W.	Scilly	58	53	55·5
	Plymouth‡	51	50	50·7
	Salcombe	54	51	52·4
IRELAND, N.W.	Sheephaven	53	51	51·7
	Teelin	55	53	54·1
IRELAND, S.W.	Cleggan	56	51	53·7
	Seafield	58	54	55.6
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

Registering Balloon Ascents.

Height kms.	1 Crinan, N.B. December 8th, 1909. 2.57 p.m. Pressure Mgd.	Temperature. C°	Temperature. A°	2 Pyrton Hill. May 3rd, 1911. 7.0 p.m. Pressure. Mgd.	Temperature. A°
Ground	1·011	278 or 275		·985	282
0·5	0·956	274	271	·984	279
1·0	·893	270		·888	277
1·5	·838	265·5	267	·838	275
2·0	·785	261	264	·790	273
2·5	·737	256	258	·741	270·5
3·0	·689	253	256	·696	265
3·5	·644	250·5	253	·654	256
4·0	·603	248	250	·614	263·5
4·5	·563	246	249	·576	261
5·0	·524	244	248	·540	259
5·5	·488	242	245	·504	255·5
6·0	·457	240	242	·472	251·5
6·5	·424	238	240	·443	?
7·0	·395	237	239	·412	246
7·5	·369	234	235	·384	243
8·0	·342	231		·359	240
8·5				·336	235·5
9·0				·312	231
9·5				·289	227·5
10·0				·271	223
11·0				·234	219
12·0					
13·0					
14·0					
15·0					
At Min. Pressure.	·342	8·4	231°	·234	219°
Max. height (km.)				11·0	
Min. Temp. ..	228° at 8·4 km.			219° at 11·0 km.	
Hc, Tc	—			11·0 ?	219°
Place of fall ..	Near Liverpool			Stowmarket	
Distance (km.) ..	220			146	
Direction ..	152°			65°	
Gradient, °C per 100 m.	0·56			0·59	
Ground to ..	8 km.			10 km.	

Height kms.	3 Pyrton Hill. May 4th, 1911. 7.0 a.m. Pressure. Mgd.	Temperature. A°	Dir.°	Vel.m.p.s.	4 Manchester. May 4th, 1911. 7.15 p.m. Pressure. Mgd.	Temperature. A°
Ground	·1·92	281·5	270	5	1 008	284·5
0·5	·951	279	280	7	0 952	277·5 280
1·0	·897	275·5	290	9	·897	273·5 277
1·5	·843	272	287	10	·842	269 273
2·0	·792	269	285	11	·790	267·5 270
2·5	·742	267	288	12	·742	263·5 266
3·0	·697	265	290	12	·696	261·5 263
3·5	·652	262·5	290	14	·649	258·5 261
4·0	·611	260	290	16	·606	256 258·5
4·5	·573	257	283	15	·567	255 257·5
5·0	·537	254	275	14		—*
5·5	·501	251	275	16		—*
6·0	·471	248	275	18	·463	246·5 251
6·5	·438	245	275	20	·431	243 245·5
7·0	·408	240·5	275	23	·403	239 241·5
7·5	·381	235·5			·376	234 237·5
8·0	·355	232			·349	230 233·5
8·5	·329	229·5			·324	227·5 229·5
9·0	·305	227			·300	225
9·5	·284	224·5			·277	222·5 221·5
10·0	·264	222·5			·257	221 219
11·0	·228	222			·220	219·5 218
12·0	·196	221			·187	217·5
13·0	·168	220			·160	219
14·0	·144	220			·137	218
15·0					·117	218
At Min. Pressure.	·144	220°			·117	218°
Max. height (km.)	14·5				15·0	
Min. Temp. ..	220° at 13 to 14·5 km.				218° at ? km.	
Hc, Tc	10·4	221·5			11·0	218°
Place of fall ..	Grays, Essex.				Atwalton, Nr. Peterborough.	
Distance (km.) ..	91				164	
Direction ..	102°				138°	
Gradient, °C per 100 m.	0·59				0·63	
Ground to ..	10 km.				7 km.	

Pilot Balloon Ascent.

Height kms.	5 Pyrton Hill, May 22nd. 3h. 14m. p.m. Wind Direction and Velocity.		Height kms.
Ground	330°	2	Ground
0·5	290	2	0·5
1·0	275	4	1·0
1·5	330	2	1·5
2·0	280	2	2·0
2·5	265	4·5	2·5
3·0	250	4·5	3·0
3·5	265	2·5	3·5
4·0	290	3	4·0
4·5	330	3·5	4·5
5·0	320	6	5·0
5·5			5·5
6·0			6·0
6·5			6·5
7·0			7·0
7·5			7·5
8·0			8·0
8·5			8·5
9·0			9·0
9·5			9·5
10·0			10·0
11·0			11·0
12·0			12·0
13·0			13·0
14·0			14·0
15·0			15·0
At Min. Pressure.			At Min. Pressure.
Max. height (km.)			Max. height (km.)
Min. Temp. ..			Min. Temp.
Hc, Tc			Hc, Tc.
Place of fall ..			Place of fall.
Distance (km.) ..			Distance (km.)
Direction ..			Direction.
Gradient, °C per 100 m.			Gradient °C per 100 m.
Ground to ..			Ground to.

NOTES.

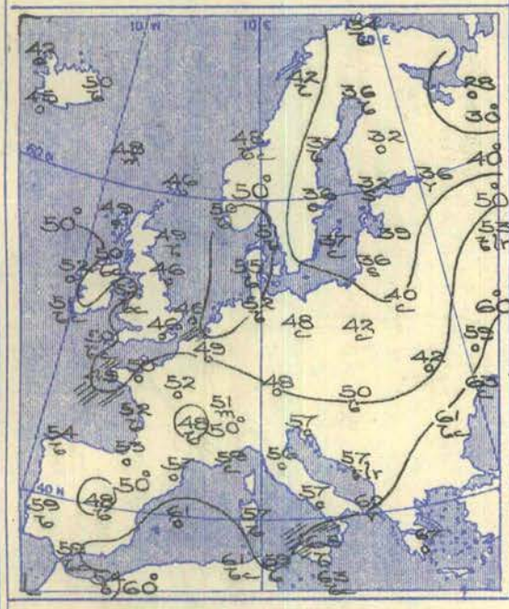
1—Showers, Cloudy, Thaw, Wind N.W. 2—Gale S.S.W., Overcast. 3—Clear, a few clouds, Wind W. 4. Signs of Solar radiation shown on one trace. The one with the lowest temperature is taken. Wind observations with one theodolite. Upward velocity 3·3 m.p.s. assumed above 2·5 km. 4—* Trace illegible. * Trace crossing at 9 km. 5—One theodolite. Assumed rate of ascent 2.0 m.p.s. Few small cumulus.

NOTE.—Hc and Tc are the height and temperature at which the Stratosphere is reached.

Sunday, 21st May, 1911.

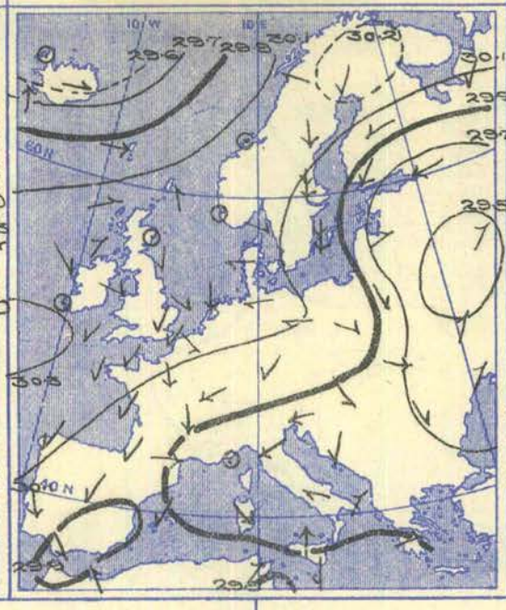
Temperature and Weather.

7 a.m.

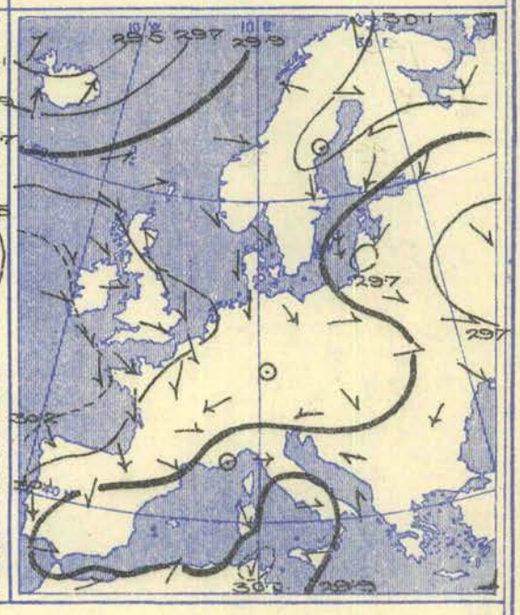


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally overcast in England and also over a large portion of Italy, the Adriatic, Russia, and Finland, with thunderstorms at Pesaro and Moscow, and rain over the Gulf of Finland and at Brindisi. Mostly fair or fine elsewhere, but rainy at Havre and Bilbao. Considerable falls of rain later in Italy and smaller quantities in some parts of Russia and North Germany, and as much as 1·1 in. at Bucharest.

Temperature fallen in most parts of central and southern Europe and also over the Baltic and Sweden. Morning readings ranging from about 65° at some places in the extreme south to below 50° over our area as a whole to 44° in central England, 32° in Finland, and to 28° at Archangel. Maxima during day very little above 50° in many parts of England, but nearly 70° at some Scottish stations. Below 60° over the north of France and in several districts in central Europe, and not much above 70° in the south of our area.

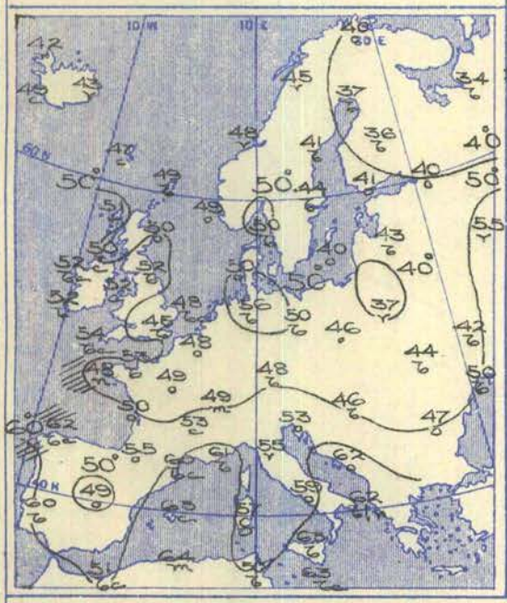
Wind in morning Westerly over the Icelandic region, but mainly from some Northerly point over the greater portion of the Continent and these Islands; strong to a gale on the Baltic, light or moderate elsewhere. Light Southerly breezes prevailing in southern and central Russia, and light or moderate breezes from various directions on the Mediterranean. Not much change later in day; backing somewhat in Iceland and the United Kingdom.

Barometer in morning above 30·3 in. between Ireland and the Azores and relatively high thence to the north of Scandinavia. Below 29·5 in. in a large depression centred over Russia, and relatively low in other disturbances in the south of our area. Main depression moving Eastward during day, but a secondary forming over the Baltic Provinces of Russia, and little modification occurring in the general distribution of pressure. A fall setting in over Iceland.

Monday, 22nd May, 1911.

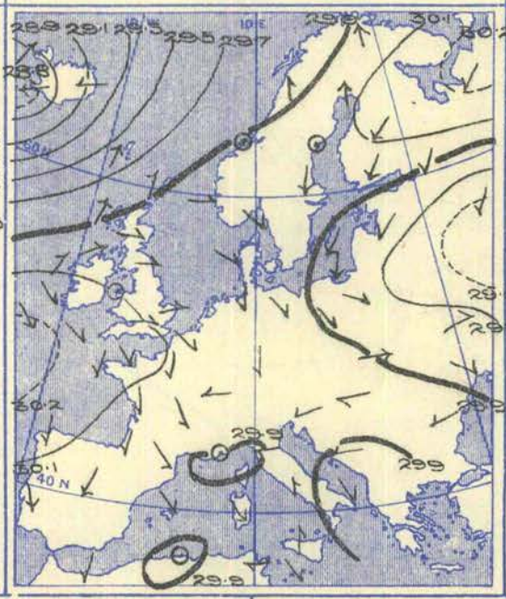
Temperature and Weather.

7 a.m.

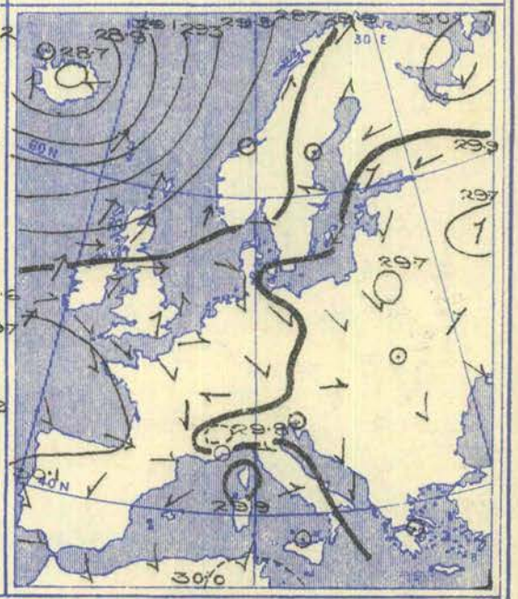


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in Iceland, the west of Norway, East Prussia and Poland, as well as at St. Petersburg, Florence, and Bilbao, and a thunderstorm prevailing at Brindisi. Overcast in a few other regions, but generally fair to fine. Rain experienced later in the extreme north and west of Scotland, and also in some localities in central Europe, Italy, and Russia, but amounts not large.

Temperature changed rather irregularly; risen at most northern stations, and fallen in many southern localities. Morning readings ranging from above 60° at a number of stations in the south of our area to below 50° in various parts of France, central Europe, and the United Kingdom, and to below 40° in Finland and northern Russia. Rising later to above 65° in several parts of England, and touching 70° in places. Maxima below 70° over the greater portion of France and below 60° at some stations in central Europe; about 75° in Greece and at Nemours.

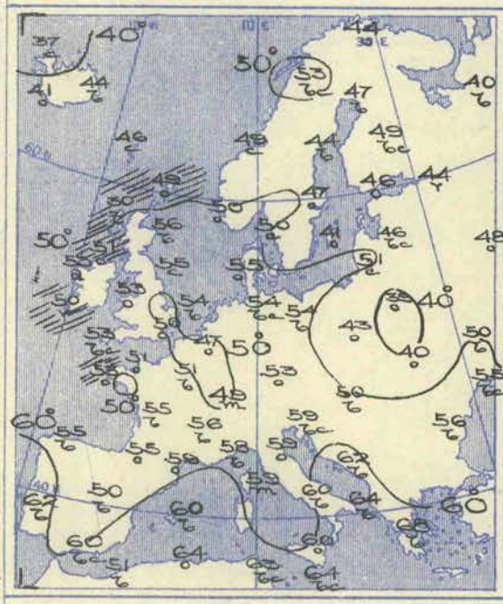
Wind in morning chiefly Westerly to South-Westerly over these Islands, and South-Westerly to Southerly between Scotland and Iceland; light or moderate generally, but fresh or strong in some northern localities. Direction varying a good deal elsewhere; fresh to high Northerly winds prevailing over the Baltic. Increasing to a high wind from the South-Westward later in the Hebrides, and to a fresh or strong breeze on our most northern and north-western coasts generally.

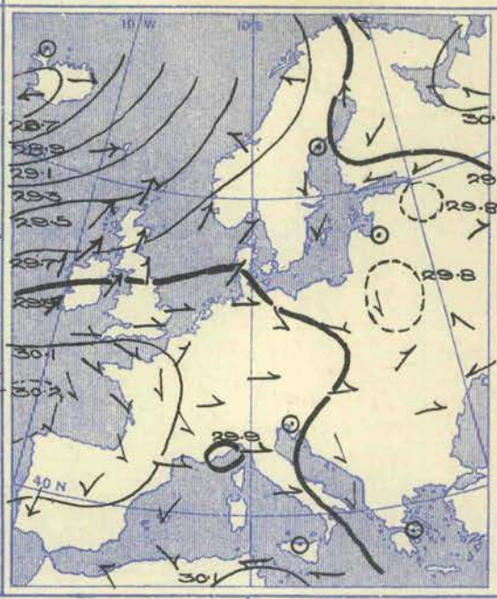
Barometer in morning 30·3 in. at the Azores and relatively high in an anticyclonic system extending thence to Denmark, and also in another high pressure system extending from the south of Scandinavia to the White Sea. Below 29·6 in. in a depression over Russia, and below 28·9 in. in another disturbance advancing over Iceland. Pressure falling still lower in Iceland during day, and beginning to give way decidedly in the north of these Islands. Gradient increasing between this country and Iceland.

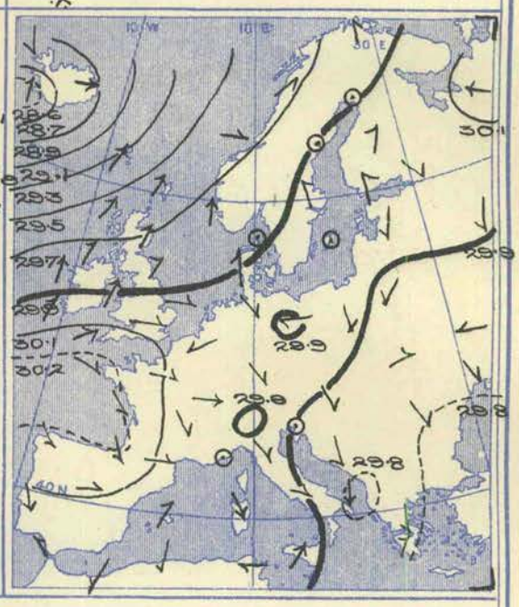
Tuesday, 23rd May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to fine and bright over our area as a whole, but overcast in a few localities, and rainy at St. Petersburg and on the west coast of Ireland. Some rain later in the west and north of these Islands, and also at various stations in different parts of the Continent; as much as 0·4 in. at Rome.

Temperature risen in most regions. Morning readings ranging from above 60° at many places in the south and 68° at Patras and Athens to below 50° over a large area in the northern half of Europe, and to 40° at Archangel. Rising to 70° later at a few stations in the south-east of England and at many in southern Europe and France, and touching 77° at Patras. Remaining below 60° at various places in Germany and Austria, and rising no higher than 50° at Lemberg.

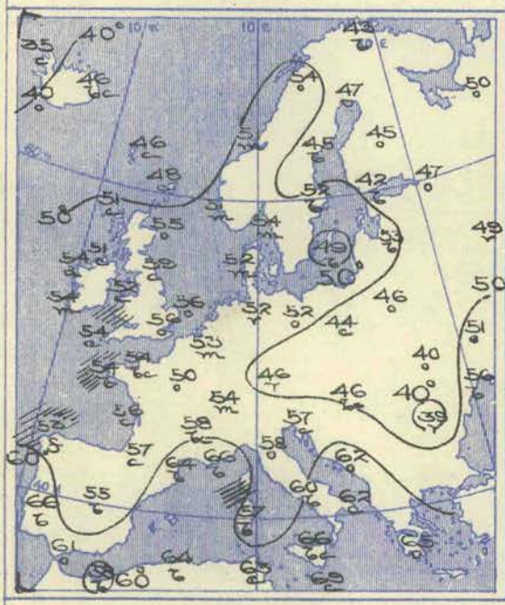
Wind in morning light and somewhat variable over the major portion of our area, but South-Westerly to Southerly over the United Kingdom and its neighbourhood; fresh or strong in the Hebrides and north of Ireland. No great change occurring during day; veering a little in some parts of Britain.

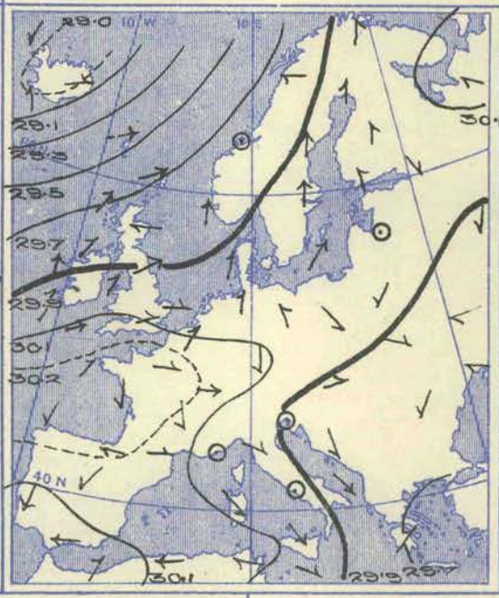
Barometer in morning above 30·3 in. at the Azores, and relatively high in a North-Easterly direction as far as the White Sea. Below 28·7 in. in a large depression over the Icelandic region and relatively low in some shallow disturbances in the east and south of our area. Very little modification occurring later either in the general distribution or actual height of pressure.

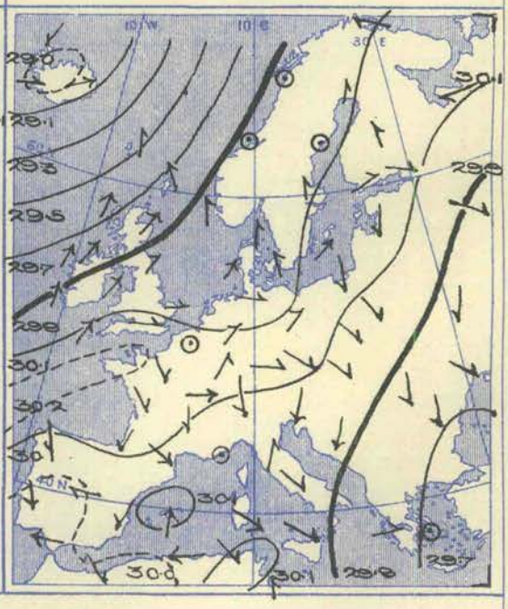
Wednesday, 24th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to fine in most regions, but overcast in places, and rainy at Blacksod Point, and at several stations in central Europe and the Netherlands, as well as at Moscow and Hermanstadt. Rain during day at several of our own western stations and in various parts of central and south-eastern Europe, but measurements not large.

Temperature changed rather irregularly; risen in England and at various stations in northern Europe and also in Algeria. Readings in morning below 40° at Cracow and Hermanstadt, 50° or below in Russia, about 55° over a considerable portion of England and Scotland, and between 60° and 66° at many stations on the shores of the Mediterranean. Rising to 85° and upwards during day in some parts of Algeria and the Spanish Peninsula, and to 70° and upwards over the greater part of the Continent and central and eastern England.

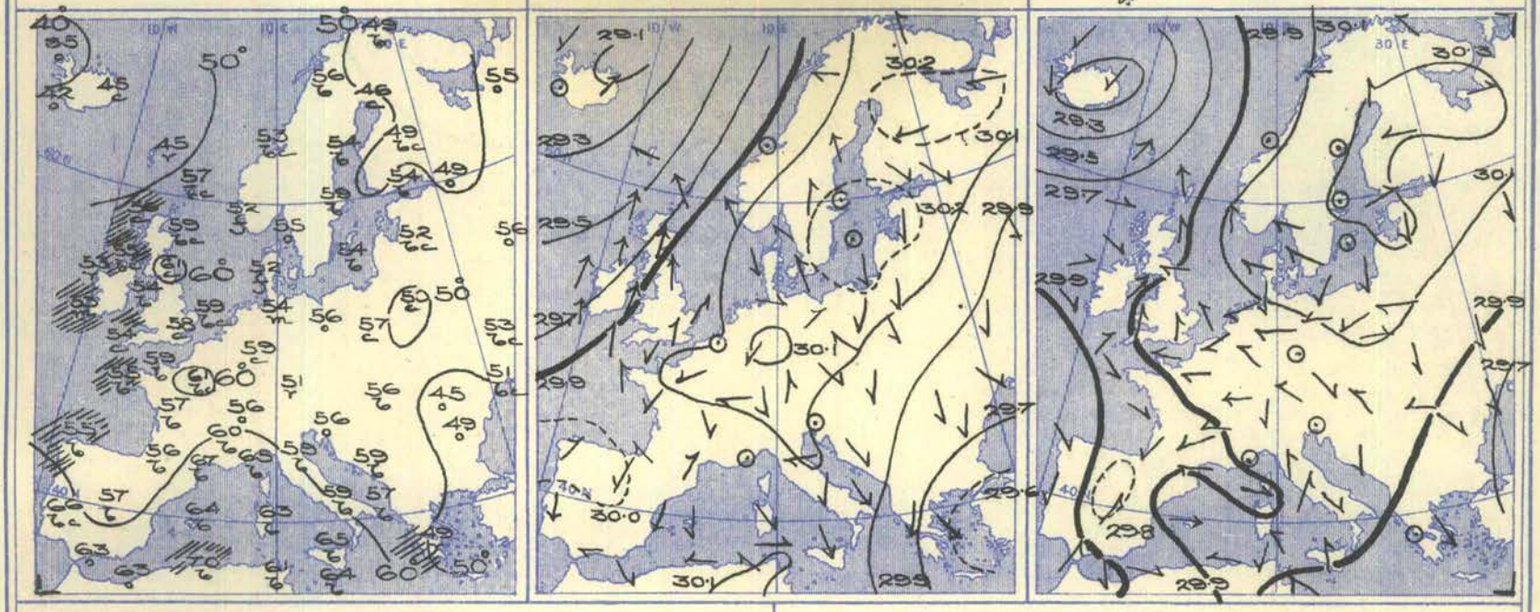
Wind in morning mainly between West and South-West or South over the United Kingdom and Scandinavia; light generally, but moderate in several localities, and fresh at Blacksod Point and Stornoway. Light and variable over eastern and southern Europe, but mainly from some point between North-West and North-East or East. Little change as a whole during day but increasing to strong or high wind on our north-west coasts.

Barometer in morning above 30·2 in. in an anticyclone extending from the Azores to France, and relatively high thence to the White Sea; below 29·7 in. over the extreme south-east of our area, and below 29·0 in. in a large depression having its minimum over Iceland Singularly little change taking place during day in the distribution of pressure.

Thursday, 25th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair or fine over Europe as a whole as well as over the greater part of the British Islands, but cloudy or dull on our north-west coasts and in some parts of Germany, with rain locally, as well as at Thorshavn and Nicolaieff. Rain during day at numerous isolated stations on the Continent, as well as in the Hebrides and the west and south of Ireland.

Temperature risen over the greater part of our area, but fallen over south-eastern Europe. Morning readings below 40° in the north-west of Iceland and below 50° over the Iceland region generally, as well as in south-eastern Europe, only 45° at Hermanstadt; about 60° at many stations in Eastern Britain and over France and above 65° over the Western Mediterranean generally. Rising to 70° and upwards during day in many parts of Scotland and England, to 80° and upwards in some parts of France and Spain, but thermometer not exceeding 52° at Hermanstadt.

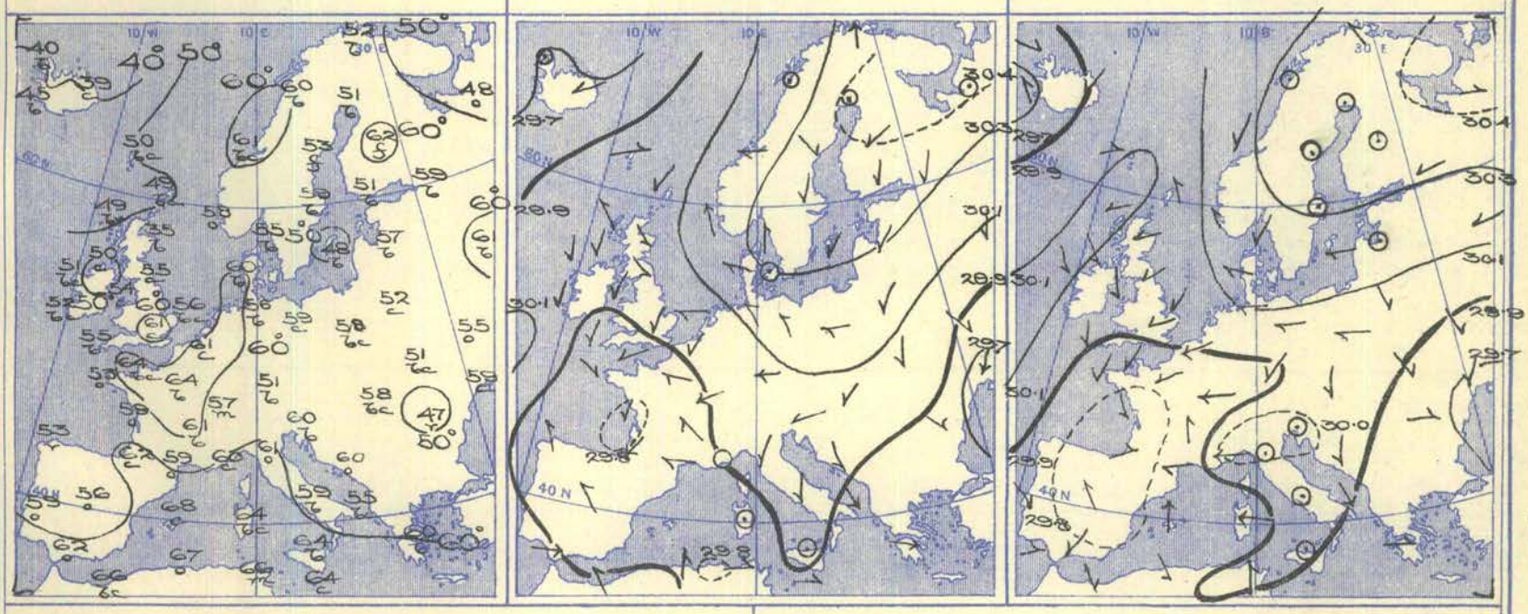
Wind at 7 a.m. calm and variable in Iceland; Southerly (south-east to south-west) over Great Britain and Ireland, light in force over the south and east of England, fresh to high on our northern and western coasts. Light and variable over the Continent as a whole, but Northerly (north-west to north-east) fresh, over Greece and the south of Italy. Wind becoming fresh from the Northward during day in Iceland and veering to West or North-West and falling light at our western stations, very little change taking place on the Continent.

Barometer in morning above 30·2 in. in the Azores region and also over the Baltic and northern Russia; 29·2 in. and less in a depression over Iceland, and 29·7 in. and less in another over Greece. Icelandic depression filling up during day and barometer rising over north-western Europe generally; disturbance over Greece moving away eastward, but shallow system forming over central Spain.

Friday, 26th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning rainy at Hermanstadt and Bucharest and also at Corunna, Lorient, and Birr Castle; fair to fine in most other regions, but overcast in places. Thunderstorms later in various parts of England and over a large area in France, with heavy rain locally. Some rain also experienced in the south of Russia, and a thunderstorm at Kharkoff.

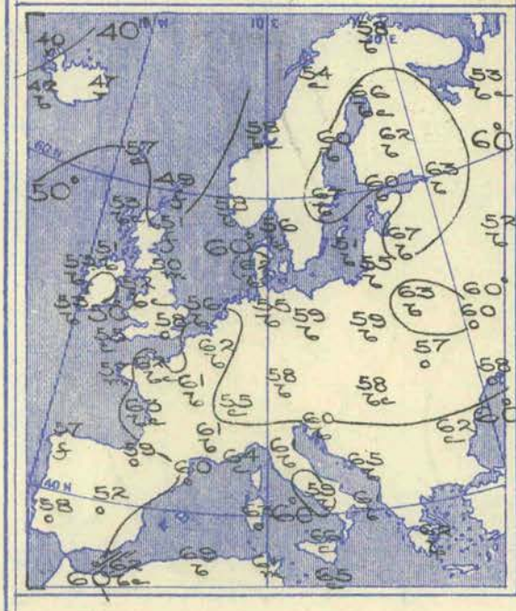
Temperature showing no decided change. Morning readings ranging from above 65° at many stations in the far south and about 60° in central Finland to very little above 50° at Lugano and Buda-Pesth, and to 48° at Wisby and Archangel. Rising during day to 70° or above in many parts of England and over the greater portion of France and central and southern Europe, and to above 80° in Algeria. Minima at night very high in these Islands; above 55° in some English localities.

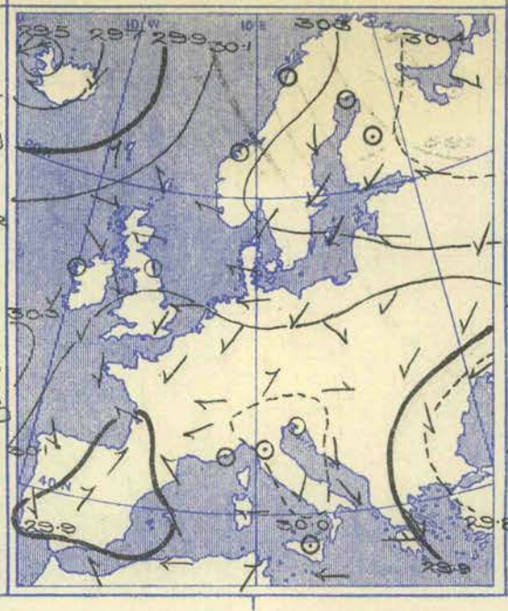
Wind in morning mainly anticyclonic over the northern and central countries, cyclonic elsewhere; very light to moderate in force generally, but fresh or strong at Odessa and Brindisi. No change of importance later, but some increase in force taking place in France and on the shores of the Mediterranean.

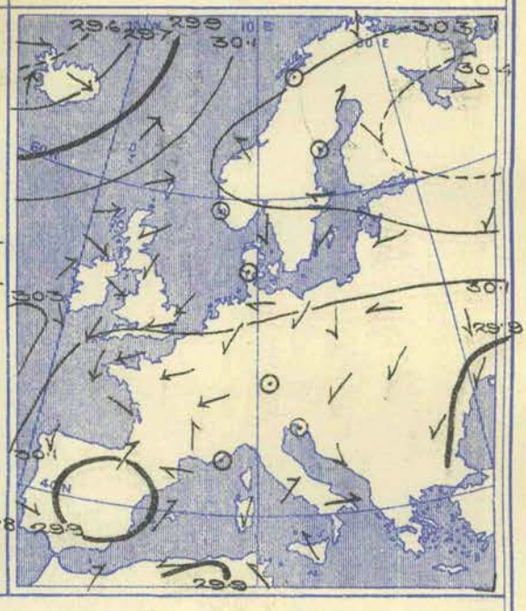
Barometer in morning 30·4 in. in a large anticyclone having its maximum over Finland and the White Sea; below 29·8 in. in a depression over the south-west of France, and below 29·7 in. both in the south-east and north-west of our area. Very little change occurring later in the general distribution of pressure, and actual height of the readings undergoing little modification.

Saturday, 27th May, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to fine over the major portion of our area, but overcast at some stations both in these Islands and on the Continent. Rainy at Cape de Garde and a thunderstorm prevailing at Sétif. Thunderstorms occurring later in several parts of France and at Algiers, and considerable falls of rain measured in some localities. Some severe thunderstorms and heavy local rains experienced in the south-west of England.

Temperature risen in the north-east of our area, changed rather irregularly elsewhere. Morning readings ranging from 65° or above at some stations in the south of our area and also at a few stations in the north of the Continent to about 50° in some Irish and Scottish localities. Thermometer rising to above 70° in many parts of England during day and also over the major portion of the Continent. Maximum a little above 80° at Le Mans and Memel.

Wind in morning varying locally, but mainly from some Easterly point over the greater part of the Continent, and from North-East or North over the United Kingdom. Light or moderate in force generally, but a gale from the Eastward prevailing in the north-west of Iceland. Not much change later in day, but gale ceasing in Iceland and wind becoming Southerly to South-Westerly in that Island.

Barometer in morning above 30·5 in. in the north of Russia; relatively low in shallow depressions in the south of our area, and below 29·5 in. over the western half of Iceland. Pressure above 30·3 in. on the Atlantic off the south-west of Ireland. Barometer rising during day over most of the United Kingdom and France, but no important change taking place in the general distribution of pressure. A decided fall of the mercury setting in in Algeria.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
1	1911. May 23rd, 10.35 a.m. to 12.1 p.m.	Pyrton Hill, Oxon, 500 m.	Temperature Humidity .. Wind .. .	289·5° 60% 260°, 7	288·5° 60% 260°, 10	284·5° 75% 270°, 10	80° 95% 270°, 11				280° 50% 275°, 12	1,350	Clouds at 1,100 m. with inversion of 1·5° just above them.
2	May 24th, 9.45 a.m. to 10.37 a.m.	Pyrton Hill, Oxon, 500 m.	Temperature Humidity .. Wind	290° 80% 270°, 7	288·5° 80% 270°, 10	285° 100% 275°, 14	285° 100% 280°, 16				284° 100% 280°, 17	1,300	Overcast. Clouds at 600 m.
3	May 27th, 10.0 a.m. to 12 noon.	Brighton, 115 m.	Temperature Humidity .. Wind	294·4° 60% 80°, 4·9	? ° 55% 130°, ?	292° 60% 110°, 11	288° 65% 100°, 8						Overcast, heavy, St. Cu. to clear sky. Very steady wind at all heights. Defective trace.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites..	2	1	1
Area of Surface (sq. metres) ..	13	6	7
Capacity of Balloon (cub. metres)	—	—	—
Length of Wire (metres)	1,700	1,900	1,500

South Kensington, London, S.W. *May 31st, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 22. TWENTY-SECOND WEEK, SUNDAY, MAY 28TH, TO SATURDAY, JUNE 3RD, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was very fine and bright, but after the early days of the week thunderstorms occurred in places in all parts of the Kingdom. On May 30th they were reported at Hillington and Wokingham, on May 31st and June 1st in a great many localities, and on the two days following at several scattered places in England and Ireland.

Temperature was much above the average in all districts, the mean values for the week being in most cases higher than any recorded in the corresponding week during the past 30 years. In Scotland W. the excess amounted to nearly 10°, and in Scotland N. England N.W. and S.W. to about 8°. The highest of the maxima were recorded at most stations about the middle of the week and ranged from 83° in Scotland N. and E. and England N.W., and 81° or 80° in many other parts of the Kingdom to 76° in the English Channel. The lowest of the minima, which occurred generally on May 28th, varied from 34° in Ireland N. and 35° in Scotland E. to 48° in England S.W., and to 50° in the English Channel. The lowest readings on the grass were 28° at Markree Castle, 29° at Crathes, 30° at Armagh, and 32° at Balmoral.

Mean Temperature of the Sea. On the south-west coast of England the water was colder than during the corresponding week of last year, but elsewhere it was warmer—as much as 6° at Scarborough. The means for the week ranged from about 59° at Margate and Seafield to about 49° at Lerwick and Berwick, and to 48° at Aberdeen.

Rainfall was very heavy, locally, with some of the thunderstorms, but much less than the average over the Kingdom generally. On May 31st 0·92 in. fell at Rothamsted and 1·0 in. at Greenwich, while at Epsom on the same day the total fall was 2·86 in. of which 2·44 in. fell between 5.20 p.m. and 6.10 p.m. In all parts of the Kingdom there were stations at which no measurable quantity of rain was recorded during the week.

Bright Sunshine was much in excess of the average, especially in the north and north-west of the Kingdom. The percentage of the possible duration ranged from 79 in England N.W. and 76 in Ireland N. to 67 in the Midland Counties, and to 65 in Scotland N.

Barometer and Wind. During the greater part of the period the pressure distribution over these Islands was anticyclonic, the highest pressures being found over northern Europe. Late in the week, however, the high pressure was restricted to our most northern districts, the major portion of the Kingdom being under the influence of a large shallow low pressure system which extended slowly northward from France. The wind, after being light or moderate from between North and East, subsequently became very variable, especially over our central and southern districts.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Very light	Light	Moderate	Very light	Light	Light	Light	Light	Light	Light	Nought
	Sunshine ...	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 13 weeks from Mar. 5th, 1911.	Warmth ...	**4** * 1	**5** * 2	**7** * 1	**6** * 1	**6** * 1	**4** * 1	**5** * 3	**5** * 2	**4** * 2	**3** * 1	**6** * 3	**3** * 2
	Rainfall ...	**4** * 6	**3** * 5	**2** * 8	**2** * 3	**2** * 6	**3** * 4	**3** * 8	**3** * 7	**5** * 7	**3** * 7	**4** * 6	**3** * 6
	Sunshine ...	**6** * 3	**4** * 5	**1** * 5	**2** * 3	**1** * 5	**4** * 4	**5** * 3	**4** * 2	**4** * 3	**5** * 4	**4** * 3	**4** * 5

PAST SEASONS.

SPRING, 1910. Mar. 6th–June 4th. 13 weeks.	Warmth ...	**5** * 5	**3** * 4	**7** * 1	**5** * 3	**5** * 5	**4** * 6	**4** * 4	**4** * 2	**3** * 5	**4** * 5	**3** * 5	**3** * 4
	Rainfall ...	**5** * 4	**2** * 3	**4** * 4	**7** * 3	**4** * 4	**5** * 5	**4** * 5	**4** * 5	**2** * 4	**3** * 4	**6** * 4	**4** * 3
	Sunshine ...	**6** * 1	**3** * 2	**2** * 5	**4** * 3	**6** * 4	**5** * 5	**3** * 4	**4** * 3	**4** * 3	**2** * 5	**3** * 5	**4** * 7
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**1** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5

9698 / 450 Wy. & S., Ltd. 5—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
TWENTY-SECOND WEEK—May 28th to June 3rd, 1911.	Temperature.										Rainfall.				Sunshine.			
	*	*	*	*	*	*	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	83	38	68·6	48·7	58·1	+ 7·9	113	+ 53	0	− 2	1	− 3	0·07	−0·49	78	+ 39	65	+32
Eastern																		
1. SCOTLAND, EAST	83	35	70·5	46·4	57·7	+ 6·5	110	+ 43	0	− 2	1	− 3	0·03	−0·45	81	+ 37	68	+31
2. ENGLAND, N.E.	81	37	67·8	47·6	57·1	+ 4·7	106	+ 33	0	0	2	− 1	0·22	−0·21	81	+ 37	71	+32
3. ENGLAND, EAST	81	44	70·6	52·1	60·8	+ 6·3	132	+ 44	0	0	2	0	0·29	−0·17	81	+ 32	72	+29
4. MIDLAND COUNTIES	81	41	74·3	50·3	61·6	+ 7·2	137	+ 49	0	− 1	1	− 2	0·06	−0·44	76	+ 33	67	+29
5. ENGLAND, S.E.	78	38	72·3	53·4	62·3	+ 6·7	142	+ 47	0	0	1	− 1	0·10	−0·36	79	+ 30	71	+27
Western																		
6. SCOTLAND, WEST	82	38	75·3	51·2	62·6	+ 9·9	144	+ 68	0	− 1	1	− 2	0·10	−0·51	79	+ 32	67	+27
7. ENGLAND, N.W.	83	44	74·1	51·4	62·1	+ 8·4	141	+ 59	0	0	1	− 2	0·15	−0·35	90	+ 43	79	+37
8. ENGLAND, S.W.	79	44	72·2	53·7	62·4	+ 7·7	143	+ 54	0	0	1	− 2	0·08	−0·40	77	+ 28	68	+25
9 IRELAND, NORTH	78	34	69·5	48·7	58·5	+ 5·5	116	+ 39	0	0	1	− 2	0·08	−0·47	88	+ 44	76	+38
10. IRELAND, SOUTH	79	38	71·4	49·2	59·7	+ 5·3	124	+ 37	0	0	1	− 2	0·15	−0·44	77	+ 31	68	+27
11. ENGLISH CHANNEL	76	50	68·8	54·0	61·0	+ 5·4	133	+ 38	0	0	0	− 3	0·00	−0·50	78	+ 22	71	+20
THE SEASON (Spring).—Aggregates, &c., for the Period of 14 Weeks, March 5th to June 3rd, 1911.																		
0. SCOTLAND, NORTH	83	22	*	*	*	*	453	+ 65	196	−29	45	−13	8·72	−1·16	454	+48	35	+ 4
Eastern																		
1. SCOTLAND, EAST	83	17	*	*	*	*	504	+ 41	203	−39	48	− 1	5·20	−1·07	455	+11	36	+ 1
2. ENGLAND, N.E.	81	26	*	*	*	*	561	+ 89	150	−24	41	− 3	3·71	−1·38	441	−35	35	− 3
3. ENGLAND, EAST	81	22	*	*	*	*	663	+ 62	156	−26	38	− 3	4·56	−0·39	506	+11	41	+ 1
4. MIDLAND COUNTIES	81	22	*	*	*	*	669	+ 54	171	−26	33	− 8	3·61	−1·92	417	−30	33	− 2
5. ENGLAND, S.E.	78	24	*	*	*	*	684	+ 35	134	+12	35	− 4	4·91	−0·25	516	+19	41	+ 2
Western																		
6. SCOTLAND, WEST	82	20	*	*	*	*	612	+109	165	+ 2	37	−12	6·94	−2·03	497	+31	39	+ 2
7. ENGLAND, N.W.	83	26	*	*	*	*	634	+104	130	− 5	35	−10	5·10	−1·52	500	+42	40	+ 3
8. ENGLAND, S.W.	81	22	*	*	*	*	664	+ 50	124	+22	36	− 8	6·49	−0·59	524	+23	42	+ 2
9. IRELAND, NORTH	78	22	*	*	*	*	577	+ 42	134	+ 6	38	−15	5·10	−2·33	496	+53	39	+ 4
10. IRELAND, SOUTH	79	23	*	*	*	*	707	+ 74	124	+30	47	− 1	6·95	−1·02	501	+15	40	+ 1
11. ENGLISH CHANNEL	78	28	*	*	*	*	742	+ 42	54	+24	43	− 3	5·37	−0·64	590	− 6	48	− 1
THE YEAR.—Aggregates, &c., for the Period of 22 Weeks, January 1st to June 3rd, 1911.																		
0. SCOTLAND, NORTH	88	14	*	*	*	*	542	+ 94	415	−140	91	−13	21·13	+0·29	540	+ 46	30	+ 3
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	589	+ 58	487	−132	82	− 2	9·53	−1·73	598	+ 30	33	+ 2
2. ENGLAND, N.E.	81	19	*	*	*	*	685	+133	371	−104	69	− 8	6·22	−2·26	575	− 27	32	− 2
3. ENGLAND, EAST	81	16	*	*	*	*	775	+ 84	409	−112	74	− 1	7·82	−0·50	653	+ 18	36	+ 1
4. MIDLAND COUNTIES	81	14	*	*	*	*	791	+ 72	415	−118	60	−14	6·18	−3·53	546	− 21	30	− 1
5. ENGLAND, S.E.	78	16	*	*	*	*	787	+ 20	361	− 20	64	− 7	8·03	−1·58	668	+ 37	37	+ 2
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	735	+143	347	− 78	77	−12	16·33	−1·49	607	+ 34	34	+ 2
7. ENGLAND, N.W.	83	17	*	*	*	*	745	+121	314	− 72	67	−14	10·39	−1·90	626	+ 55	35	+ 3
8. ENGLAND, S.W.	81	13	*	*	*	*	777	+ 12	297	− 4	69	−11	11·46	−2·62	666	+ 29	37	+ 2
9. IRELAND, NORTH	78	18	*	*	*	*	730	+ 70	302	− 43	75	−20	10·50	−3·46	628	+ 67	35	+ 4
10. IRELAND, SOUTH	79	18	*	*	*	*	896	+ 77	295	+ 36	84	− 2	11·89	−3·63	640	+ 18	35	+ 1
11. ENGLISH CHANNEL	78	28	*	*	*	*	930	+ 11	135	+ 26	76	−11	8·84	−3·08	748	− 16	41	− 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	64	30th	41	31st	60·3	46·4	52·9	—	276	0	1	0·01	—	87·8	—	70	—	Baltasound.
	a Lerwick	63	3rd	44	29th	59·7	47·7	53·3	+ 6·6	79	0	0	0·00	—	92·5	+53·8	75	+44	Deerness.
	a Stornoway	78	2nd	47	29th	70·1	50·6	59·8	+10·8	125	0	1	0·01	+ 0·54	96·8	+53·3	80	+44	Stornoway.
	a Castlebay, Barra Isd.	73	30th	47	28th	66·3	53·4	59·5	+ 7·6	123	0	0	0·00	—	93·9	—	79	—	Castlebay.
	a Wick	63	30th	42	28th	59·3	46·6	52·6	+ 3·5	74	0	0	0·00	- 0·42	*	*	*	*	*
— b, Mainland.	p Strathpeffer.. ..	77	3rd	41	28th	71·8	47·1	58·7	+ 8·2	117	0	2	0·11	- 0·32	69·1	+30·7	58	+26	Strathpeffer.
	p Glencarron .. S	80	2nd	38	28th	75·3	49·7	61·7	+12·2	138	0	0	0·00	- 0·98	*	*	*	*	*
	p Fort Augustus	77	2nd, 3rd	42	28th, 29th	66·7	47·4	56·5	+ 6·0	102	0	2	0·36	- 0·12	54·0	+22·8	45	+19	Fort Augustus.
	p Fort William S	83	29th	39	28th	77·1	52·0	63·8	+12·2	153	0	0	0·00	- 0·82	*	*	*	*	*
1. SCOTLAND, E. ..	p Gordon Castle S	82	1st	41	3rd	76·5	46·9	60·8	+ 9·8	132	0	0	0·00	- 0·47	89·7	—	75	—	Gordon Castle.
	a Nairn	81	2nd	38	28th	69·3	45·0	56·4	+ 5·2	101	0	3	0·04	- 0·36	70·1	—	58	—	Nairn.
	a Aberdeen	67	1st	43	29th, 3rd	64·0	46·7	54·8	+ 4·5	90	0	0	0·00	- 0·45	85·3	+42·0	72	+35	Aberdeen.
	a Balmoral .. S	83	29th	35	29th	76·0	42·4	58·2	+ 9·5	113	0	0	0·00	- 0·55	90·2	—	76	—	Crathes S.
	p Crieff .. .. S	76	30th, 1st	43	29th	71·9	47·9	59·2	+ 6·6	120	0	1	0·08	- 0·52	77·8	—	66	—	Balruddery.
	a Leith	77	1st	45	30th	65·9	49·1	57·0	+ 4·7	105	0	1	0·02	- 0·39	*	*	*	*	*
	p West Linton.. S	77	1st	41	28th	70·9	46·5	58·0	+ 8·7	112	0	1	0·13	—	81·2	—	69	—	West Linton.
	p Marchmont .. S	79	1st	42	2nd	69·7	46·3	57·3	+ 7·3	107	0	0	0·00	- 0·54	81·1	+39·8	69	+34	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	69	29th	39	2nd	66·2	43·7	54·3	+ 3·8	86	0	1	0·19	- 0·28	85·0	—	73	—	Cockle Park.
	a Shields	64	29th	45	28th	61·3	48·1	54·3	+ 3·4	86	0	2	0·34	- 0·06	64·8	+31·6	56	+27	Newcastle.
	p Durham	75	1st	37	2nd	68·3	43·8	55·3	+ 4·0	93	0	2	0·21	- 0·21	78·8	+39·4	68	+34	Durham.
	p Rounton .. M	78	1st	40	3rd	70·5	45·2	57·1	+ 6·7	106	0	2	0·16	- 0·29	*	*	*	*	*
	p Scarborough.. M	67	28th	47	2nd	62·0	50·3	55·8	+ 4·0	97	0	2	0·43	0·00	83·2	—	72	—	Scarborough.
	p York	77	1st	45	2nd, 3rd	73·1	48·9	60·3	+ 6·7	128	0	2	0·11	- 0·35	76·6	+36·0	67	+31	York.
— b, South.	a Spurn Head	62	28, 29, 30th	48	28th	60·4	51·3	55·6	+ 3·3	95	0	3	0·38	+ 0·04	*	*	*	*	*
	a Lincoln	79	1st	49	30, 2, 3rd	73·4	50·2	61·1	+ 6·6	134	0	2	0·05	- 0·38	84·8	—	74	—	Skegness.
	a Fulbeck	81	1st	43	2nd	74·9	47·3	60·3	+ 6·8	128	0	1	0·13	- 0·31	79·7	—	70	—	Rauceby.
															—	—	—	—	Lowestoft.
3. ENGLAND, E. — a, North.	p Cromer	71	3rd	48	28th	65·3	51·1	57·8	+ 5·3	111	0	2	0·33	—	88·1	—	77	—	Cromer.
	p Hillington .. M	77	3rd	44	28th	72·3	51·0	61·0	+ 7·6	133	0	3	0·51	+ 0·06	81·6	+34·9	72	+31	Hillington.
	a Yarmouth	64	3rd	51	28th	61·3	53·4	57·1	+ 4·5	106	0	2	0·20	- 0·19	84·6	—	75	—	Yarmouth.
	a Norwich	77	3rd	47	28th	72·2	52·0	61·5	+ 8·5	137	0	2	0·32	—	*	*	*	*	*
	p Geldeston	74	3rd	46	28th	69·8	51·4	60·1	+ 7·1	127	0	2	0·19	- 0·22	86·1	+36·1	76	+32	Geldeston.
— b, South.	p Cambridge	81	1st	47	28th, 2nd	76·4	50·2	62·5	+ 8·3	144	0	0	0·00	- 0·46	75·3	+28·4	67	+25	Cambridge.
	a Felixstowe	71	3rd	49	28th	66·3	53·4	59·5	+ 5·9	123	0	2	0·04	—	88·7	—	79	—	Felixstowe.
	a Clacton-on-Sea ..	71	29th	51	28th	67·0	54·4	60·3	+ 7·1	128	0	1	0·02	—	82·0	—	73	—	Clacton.
	a Rothamsted ..	76	1st	46	28th	74·5	51·1	62·1	+ 8·8	141	0	4	0·99	+ 0·54	75·7	+29·9	67	+27	Rothamsted.
	a Shoeburyness ..	74	3rd	50	28th, 2nd	69·0	52·6	60·3	+ 4·6	128	0	2	0·11	- 0·19	81·6	—	73	—	Southend.
	p Tottenham	78	29th, 1st	51	28, 30, 2nd	76·4	54·0	64·5	+ 9·9	158	0	1	0·02	—	78·0	—	70	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	75	1st	42	2nd	70·6	47·3	58·3	+ 6·9	114	0	2	0·12	- 0·38	75·4	—	66	—	Harrogate.
	a Bawtry	81	1st	41	2nd	74·6	46·3	59·6	+ 5·8	123	0	3	0·15	- 0·27	79·1	+40·5	69	+36	Worksop.
	p Buxton .. M	76	1st	46	28th	71·1	49·2	59·5	+ 9·6	123	0	0	0·00	- 0·72	82·3	—	72	—	Buxton.
	a Nottingham ..	79	1st	48	28th, 2nd	73·1	50·6	61·2	+ 7·4	134	0	1	0·01	- 0·42	79·6	—	70	—	Nottingham.
	p Birmingham, Edgbsn	79	1st	49	28th	74·8	52·0	62·7	+ 9·3	145	0	1	0·02	- 0·48	69·8	—	62	—	Birmingham.
	a Raunds .. M	81	1st	46	28th	75·0	49·5	61·5	+ 7·9	137	0	1	0·04	—	*	*	*	*	*
	a Oxford	78	1st	48	28th, 30th	75·4	51·4	62·7	+ 8·3	145	0	2	0·20	- 0·23	77·6	+32·2	69	+29	Oxford.
— b, West.	a Cheadle .. M	78	1st	47	2nd	73·0	50·9	61·3	+ 9·4	135	0	0	0·00	- 0·52	69·7	—	61	—	Sheffield.
	p Shrewsbury ..	80	1st	41	30th	76·5	48·9	61·9	+ 7·7	139	0	1	0·05	—	*	*	*	*	*
	a Hereford .. M	79	1st	46	28th, 30th	75·0	51·1	62·3	+ 7·9	142	0	1	0·03	- 0·45	*	*	*	*	*
	a Cirencester ..	77	1st	49	30th	74·0	51·7	62·2	+ 9·0	141	0	1	0·05	- 0·45	75·7	+28·4	67	+25	Cirencester.
	a Bath	79	1st	48	28th	75·4	53·9	64·0	+ 9·5	154	0	0	0·00	- 0·48	77·1	—	69	—	Bath.
															83·9	—	75	—	Ramsgate.
5. ENGLAND, S.E...	p Kew	78	3rd	51	30th	75·2	54·3	64·1	+ 9·0	155	0	1	0·45	+ 0·02	78·0	+31·6	70	+28	Kew.
	a Marlborough ..	77	1st, 2nd	38	28th	74·4	47·5	60·1	+ 7·4	127	0	1	0·08	- 0·39	76·8	+33·8	69	+30	Marlborough.
	a Margate	76	3rd	52	29, 30, 31st	65·5	53·4	59·1	+ 5·0	120	0	1	0·19	- 0·18	81·3	+36·3	73	+32	Margate.
	a Wisley, Surrey ..	77	29th, 1st	46	28th	75·5	51·5	62·8	+ 7·5	146	0	1	0·07	—	75·8	—	68	—	Wisley.
	a Swarraton .. M	77	1st	47	28th	73·5	51·7	62·0	+ 8·8	140	0	0	0·00	- 0·47	73·8	—	71	—	Worthing.
	a Tunbridge Wells M	78	31st	50	28th	73·6	52·5	62·4	+ 8·5	143	0	1	0·07	- 0·39	81·9	+34·4	73	+31	Tunbridge Wells.
	a Dungeness	69	29th, 30th	51	31st	66·6	53·7	59·8	+ 5·9	125	0	1	0·01	- 0·29	84·0	—	75	—	Littlestone.
	p Hastings	76	29th	54	29th, 30th	71·7	55·6	63·2	+ 8·8	148	0	0	0·00	- 0·37	84·9	+30·5	76	+27	Hastings.
	p Southampton ..	78	29th	52	30th	75·7	55·7	65·1	+ 8·9	162	0	1	0·06	- 0·38	76·9	+26·4	69	+24	Southampton.
	a Ventnor	77	29th	54	30th	71·3	57·6	64·0	+ 8·9	154	0	1	0·11	- 0·29	78·0	+27·6	70	+25	Ventnor.
															80·4	+28·7	72	+26	Eastbourne.
LONDON .. —	a Westminster ..	78	29th, 31st	53	30th	76·3	55·9	65·5	+10·2	165	0	2	0·58	+ 0·17	73·9	+34·9	66	+31	Westminster.
	a Greenwich	82	31st	48	2nd	78·1	52·1	64·3	+ 8·7	156	0	2	1·01	+ 0·58	82·5	+33·6	74	+35	Greenwich.
6. — a, SCOTLAND. W.	a Poltalloch .. S	80	30th	38	28th	77·0	51·3	63·4	+11·0	150	0	1	0·01	- 0·63	*	*	*	*	*
	p Glasgow	77	1st	47	28th, 29th	72·0	50·6	60·7	+ 8·5	131	0	2	0·02	- 0·55	68·6	+30·8	58	+26	Glasgow.
	p Rothesay .. S	79	2nd	41	28th	74·3	52·0	62·5	+10·1	144	0	0	0·00	- 0·66	*	*	*	*	*
	a Kilmarnock	79	29th	42	28th	76·7	48·6	61·8	+ 9·4	139	0	1	0·11	—	69·7	—	60	—	Kilmarnock.
	a Colmonell .. S	82	30th	42	28th	76·8	50·7	63·0	+10·4	147	0	1	0·01	- 0·56	*	*	*	*	*
	p Dumfries .. S	80	1st	47	3rd	76·9	51·1	63·2	+ 9·9	148	0	1	0·05	- 0·51	85·8	—	74	—	Dumfries.
	p Cally, Gatehouse S	78	1, 2, 3rd	48	28th	76·8	52·1	63·7	+11·4	152	0	2	0·27	- 0·42	*	*	*	*	*
— b, ISLE OF MAN ..	p Douglas	74	29th, 1st	48	28th, 29th	72·2	53·2	62·1	+10·2	141	0	1	0·35	- 0·23	88·6	+37·2	77	+32	Douglas.
															87·5	—	77	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	83	1st	46	2nd, 3rd	76·7	49·0	62·0	+10·2	141	0	1	0·08	- 0·47	91·4	—	79	—	Aspatria.
	p Newton Rigg ..	77	1st	44	29, 30, 31, 2	73·0	45·6	58·5	+ 7·1	116	0	2	0·17	- 0·37	97·4	+50·9	84	+44	Newton Rigg.
	p Stonyhurst	78	1st	48	2nd	73·3	52·7	62·4	+ 9·7	143	0	1	0·10	- 0·53	91·9	+47·1	80	+41	Stonyhurst.
	p Blackpool .. M	80	1st	48	30th	75·3	50·5	62·2	+ 9·1	141	0	2	0·23	- 0·26	93·7	+47·6	82	+41	Blackpool.
	p M'nch'ster,Prestwich	80	1st	49	2nd, 3rd	75·0	52·3	63·0	+10·3	147	0	1	0·19	- 0·40	80·4	+41·1	71	+36	Prestwich.
	a Liverpool (Bidston)	80	1st	51	28th	76·0	54·0	64·3	+11·0	156	0	1	0·07	- 0·39	86·9	—	76	—	Liverpool.
	a Hawarden Bridge ..	81	1st	51	28, 2, 3rd	75·9	52·9	63·7	+ 9·3	152	0	1	0·28	- 0·15	90·8	+41·4	79	+36	Southport.
															96·7	—	85	—	Rhyl.
— b, NORTH WALES ..	p Llandudno .. M	80	1st	49	28th	71·6	55·3	60·3	+ 9·4	147	0	1	0·28	- 0·15	88·9	+41·6	78	+37	Llandudno.
	a Holyhead	75	2nd	49	28, 29, 30th	67·9	51·6	59·3	+ 6·6	121	0	0	0·00	- 0·45	88·2	—	78	—	Aberdovey.
	p Bettws-y-Coed ..	80	1st	45	30th	76·7	49·9	62·5	+ 9·6	144	0	1	0·08	—	80·8	—	71	—	Bettws-y-Coed.
															81·4	—	72	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	78	1st	44	30th	73·8	47·4	59·8	+ 7·8	125	0	1	0·01	—	70·5	—	62	—	Llangammarch Wells.
	a Pembroke	72	30th	51	28th	68·9	54·0	61·0	+ 8·3	133	0	1	0·01	- 0·42	77·0	+25·7	68	+23	Pembroke.
	p Cardiff	77	1st	53	28, 30, 3rd	74·0	54·6	63·7	+ 8·6	152	0	1	0·01	- 0·54	78·8	—	70	—	Cardiff.
															84·0	+32·0	74	+28	Tenby.
— b, ENGLAND, S.W. ..	a Clifton	79	29, 1, 2nd	52	30th	77·2	55·3	65·6	+10·4	165	0	0	0·00	- 0·50	76·1	—	68	—	Clifton.
	a Shaftesbury .. M	75	29, 1, 3rd	49	30th	72·5	52·7	62·0	+ 9·9	140	0	0	0·00	- 0·50	*	*	*	*	*
	a Arlington	77	1st	50	1st	74·0	53·2	63·0	+10·6	147	0	0	0·00	- 0·65	75·7	+24·3	68	+22	Newquay.
	a Cullompton .. M	78	29, 1, 2nd	48	31st	75·9	51·7	63·1	+ 8·7	148	0	0	0·00	- 0·50	73·7	+26·7	66	+24	Cullompton.
	a Portland Bill ..	74	30th	53	1st	66·4	54·9	60·3	+ 6·3	128	0	1	0·55	—	71·4	—	64	—	Weymouth.
	p Plymouth	77	29th	55	30th, 31st	71·6	56·5	63·6	+ 8·3	151	0	1	0·19	- 0·28	71·1	+19·9	64	+18	Plymouth.
	p Falmouth	71	29th	55	31st	68·1	56·9	62·2	+ 8·1	141	0	1	0·06	- 0·46	86·6	+32·0	78	+29	Falmouth.
															74·6	—	67	—	Salcombe.
															73·5	+20·9	66	+19	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	70	2nd, 3rd	47	28th	65·7	51·0	57·9	+ 6·6	111	0	0	0·00	- 0·47	*	*	*	*	*
	a Blacksod Point ..	75	29th	43	28th	66·6	50·6	58·1	+ 5·4	113	0	1	0·20	- 0·40	*	*	*	*	*
	p Markree Castle ..	76	29th	34	28th	71·8	46·8	58·6	+ 6·7	116	0	1	0·16	- 0·46	80·8	+39·2	70	+34	Markree Castle.
	a Birr Castle	78	1st	38	28th	75·3	46·7	60·1	+ 7·0	127	0	2	0·09	- 0·42	75·0	+34·0	66	+30	Birr Castle.
— b, East.	p Armagh	74	29, 2, 3rd	38	28th	72·8	47·4	59·3	+ 7·4	121	0	0	0·00	- 0·57	94·3	+52·9	82	+46	Armagh.
	a Donaghadee	70	30th	47	28th	64·7	49·7	56·8	+ 4·7	104	0	1	0·02	- 0·50	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	73	2nd	47	28th	69·0	52·6	60·3	+ 5·8	128	0	0	0·00	- 0·45	87·3	+40·1	77	+35	Phœnix Park.
	a Kilkenny	76	29th, 1st	44	1st	74·0	48·7	60·6	+ 7·4	130	0	1	0·16	- 0·34	*	*	*	*	*
	a Waterford	78	29th	45	28th	75·1	51·1	62·4	+ 8·3	143	0	1	0·08	- 0·49	*	*	*	*	*
	a Birr Castle	78	1st	38	28th	75·3	46·7	60·1	+ 7·0	127	0	2	0·09	- 0·42	75·0	+34·0	66	+30	Birr Castle.
— b, West.	a Foynes	75	29, 30, 31st	42	28th	70·9	49·7	59·7	+ 5·7	124	0	0	0·00	- 0·53	*	*	*	*	*
	a Cahir .. .. M	77	1st	43	1st	73·6	47·9	60·0	+ 6·3	126	0	2	0·44	—	*	*	*	*	*
	a Killarney	76	29th, 31st	40	28th	75·0	47·7	60·5	+ 6·9	130	0	2	0·23	- 0·44	*	*	*	*	*
	a Valencia	70	29th	43	28th	65·0	47·9	55·9	- 2·1	97	0	2	0·12	- 0·60	67·7	+21·1	60	+19	Valencia.
	a Roche's Point ..	70	29th	47	31st	65·0	50·9	57·5	+ 3·6	109	0	3	0·25	- 0·34	79·0	—	71	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	68	29th, 30th	50	31st	66·0	52·4	58·8	+ 4·2	118	0	0	0·00	- 0·38	80·4	+25·2	72	+23	Scilly.
	a Jersey, St. Aubins ..	76	29th	53	1st	72·1	56·0	63·6	+ 7·9	151	0	0	0·00	- 0·47	76·0	+19·3	69	+18	St. Heliers.
	a Guernsey	71	30th	52	29th	68·4	53·5	60·5	+ 5·3	130	0	1	0·01	- 0·45	78·7	+19·7	72	+18	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 83·4 hrs. (+32·0 hrs.), 75 % (+29 %); Bournemouth, 70·4 hrs., 63 %; Bognor, hrs., %.* For notes see opposite page

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	53·8	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	49·6
	Crathes	1	29	57·6	50·9
	Balmoral	0	32	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	38	57·4	—
2.	Cockle Park	0	36	60·6	53·4
	Durham	0	33	—	—
	York	—	—	58·1	51·7
	Hull	0	39	57·6	49·4
	Lincoln	—	—	59·8	51·4
	Rauceby	0	38	62·7	53·0
3.	Norwich	0	43	—	—
	Yarmouth	—	—	63·3	55·3
	Lowestoft	—	—	—	—
	Cambridge	0	42	61·1	54·3
	Clacton-on-Sea ..	0	45	58·9	54·2
	Southend	0	47	62·0	—
	Tottenham	0	44	—	54·9

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	36	55·4	52·0
	Huddersfield ..	0	37	59·2	49·8
	Buxton	0	38	57·2	49·0
	Sheffield	0	42	57·4	49·9
	Nottingham.. ..	0	45	62·4	53·0
	Birmingham.. ..	0	36	56·2	49·3
	Oxford	0	—	—	—
	Hereford	0	38	—	—
	Cirencester	0	43	59·6	52·4
	Bath	—	—	—	—
5.	Margate	0	46	59·5	53·8
	Greenwich	0	35	—	—
	Westminster ..	0	46	—	—
	Kew	0	38	59·9	52·7
	Canterbury	0	42	60·6	54·6
	Tunbridge Wells ..	0	43	62·6	—
	Wisley	0	38	60·7	53·9
	Worthing	0	52	62·9	54·4
	Portsmouth	0	51	62·9	55·9
6.	Glasgow	0	37	—	—
	Rothesay	—	—	—	51·6
	Colmonell	0	37	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	40	61·1	54·1
	Douglas	0	44	—	—
7.	Aspatria	0	42	59·3	50·5
	Newton Rigg ..	0	36	58·8	50·7
	Burnley	0	37	58·6	49·9
	Southport	0	41	62·7	56·0
	Manchester City ..	0	46	61·5	53·4
	Bettws-y-Coed ..	0	44	59·1	51·6
8.	Llangammarch Wells	0	32	57·4	50·1
	Cardiff	0	47	61·8	53·2
	Clifton	0	47	—	—
	Plymouth	0	43	63·5	—
9.	Armagh	1	30	58·6	52·9
	Markree	1	28	60·0	52·0
10.	Dublin, Trin. Coll. ..	0	38	59·2	53·9
11.	Guernsey, Brooklyn	0	42	62·1	55·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, N.	Lerwick	49	48	48·9
	Kirkwall	54	52	53·1
	Wick	51	49	50·0
SCOTLAND E.	Cromarty	58	53	54·7
	Pennan Bay	53	49	51·1
	Aberdeen, Cove Bay ..	50	47	48·2
ENGLAND, N.E.	Burnmouth, Berwick ..	50	48	49·0
	Scarborough	59	52	54·6
ENGLAND, E.	Shipwash Lightship ..	56	53	54·3
	Margate‡	61	57	59·5
ENGLAND, S.E.	Eastbourne‡	60	58	59·0

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, W.	Lamlash	59	51	54·2
	Ballantrae	54	50	52·2
ENGLAND, N.W.	Port Erin	54	50	50·8
ENGLAND, S.W.	Newquay	59	53	56·2
	Scilly	59	55	56·6
	Plymouth‡	54	52	52·6
	Salcombe	57	51	53·8
IRELAND, N.W.	Sheephaven	57	53	55·3
	Teelin	61	55	58·0
IRELAND, S.W.	Cleggan	59	52	55·4
	Seafield	62	55	59.1
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤳ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); —— = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

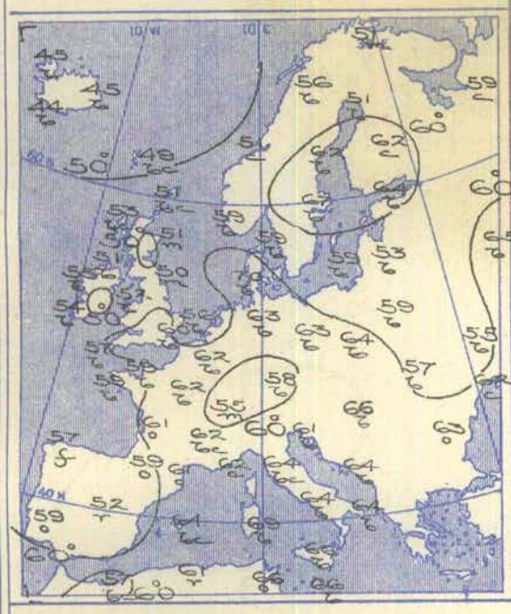
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

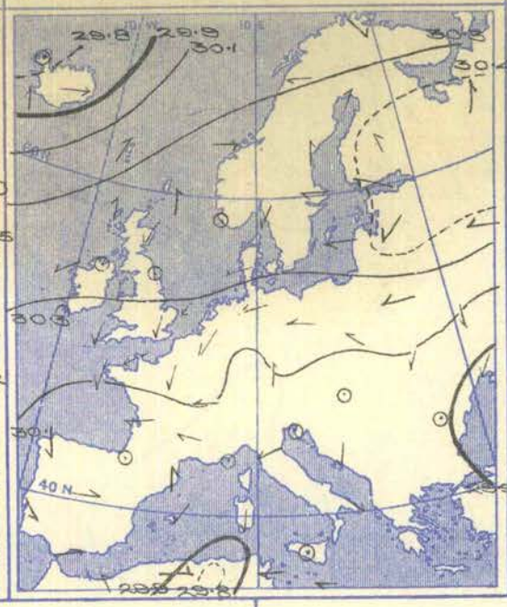
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

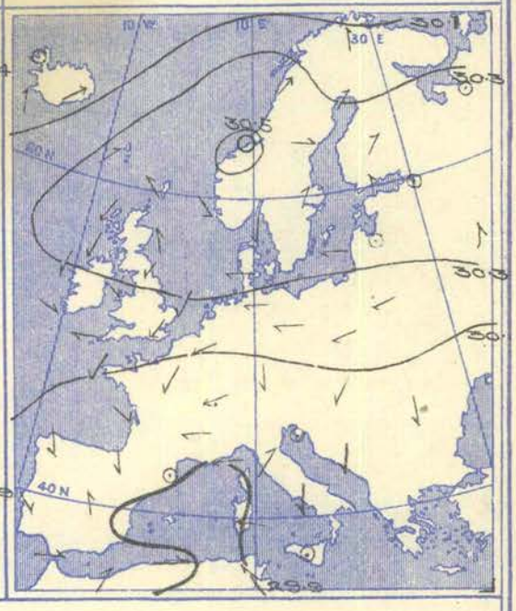
Sunday, 28th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning fair to bright over our area generally, but rain falling at Cassel, Madrid, Alicante, and Algiers, and fog prevalent on the Atlantic coast of the Spanish Peninsula. Thunderstorms later in several parts of France, with very heavy rain at La Conbre. More than 2·3 in. of rain falling at Madrid, and 0·7 in. at Barcelona.

Temperature changed rather irregularly, but risen in most places. Readings in morning above 60° in many parts of our area, including some stations in England, and as high as 72° at Sfax. Below 50° in central Scotland and Ireland, only 52° at Madrid, and about the same value in the north of Scandinavia. Rising to above 70° later over a large portion of this country, and touching 80° at Camden Square (London). Maxima between 70° and 80° very generally on the Continent, and above 80° in a few localities in France and North Germany.

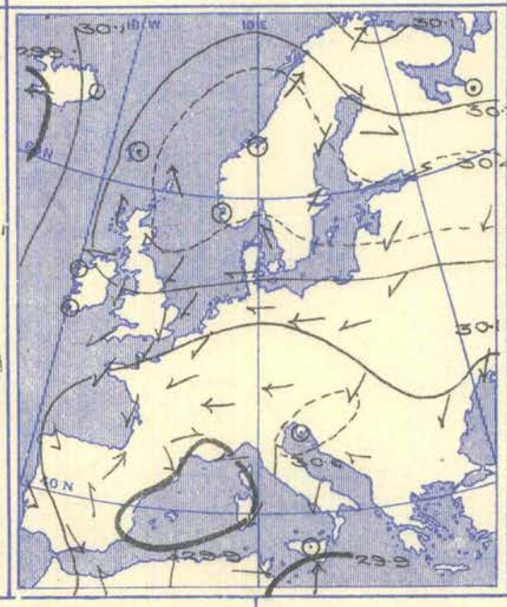
Wind in morning between South and West at most stations in the far north; mainly between North and East elsewhere, but varying considerably in some regions. Fresh or strong in Iceland, light or moderate elsewhere. Increasing to a fresh breeze later in the south-east of England, and to a fresh or strong breeze at some Mediterranean stations.

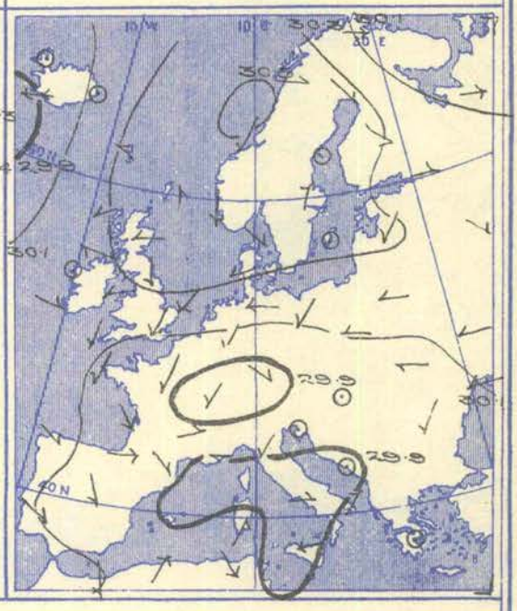
Barometer in morning above 30·4 in. in Finland and northern Russia, and relatively high thence across these Islands to the Atlantic. Below 29·9 in. over the Black Sea, Iceland, and also in a small area in Algeria. Little modification occurring later in the general distribution, but barometer rising decidedly in Iceland.

Monday, 29th May, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.





Weather in morning fair to very fine over the greater portion of our area, but overcast in Italy and the south of France, with rain in places. Considerable falls of rain later in these regions; about 0·5 in. at some Italian stations and 1·3 in. at Perpignan. Thunderstorms experienced in a few French localities.

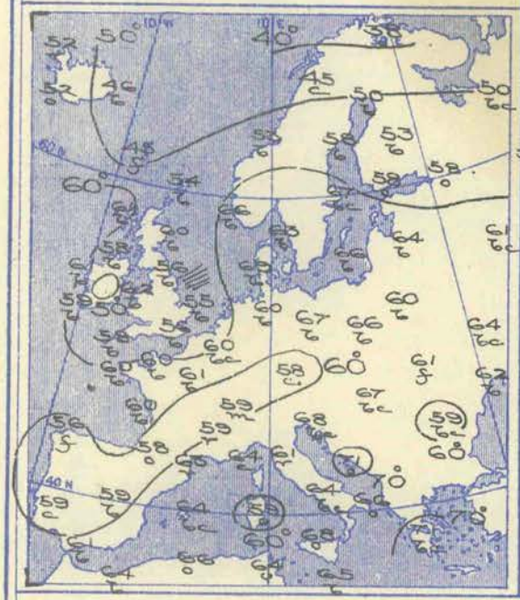
Temperature risen in most places, but changes rather irregular. Morning readings 72° at Blaavands Huk, 69° at Stockholm, and above 60° over a very large area, including Finland, Archangel, and some parts of these Islands. Below 50° at Nairn, Lerwick, and in the north of Scandinavia. Maxima during day between 70° and 80° in the United Kingdom and over the major portion of the Continent, 81° at Karlstad and Athens, and 82° at Le Mans. Thermometer only rising to 60° at Turin, and 61° at Cape Sicié.

Wind in morning mainly anticyclonic in the north, and cyclonic in the south. Fresh at Yarmouth and Cagliari, and strong at Alicante, but light generally. A gale from East blowing on the south-west coast of Iceland. No change of importance occurring later in day.

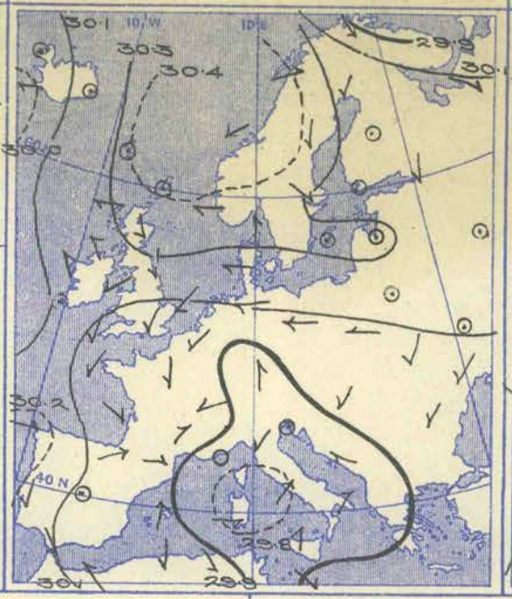
Barometer in morning above 30·1 in. in a vast high pressure system covering nearly the northern half of our area, and above 30·4 in. in an irregularly shaped band extending from central Russia to Scotland; below 29·9 in. in a large depression of little intensity over the western part of the Mediterranean, and relatively low in secondaries over France and South Germany. Slight modifications occurring in the forms and positions of the low and high pressure systems.

Tuesday, 30th May, 1911.

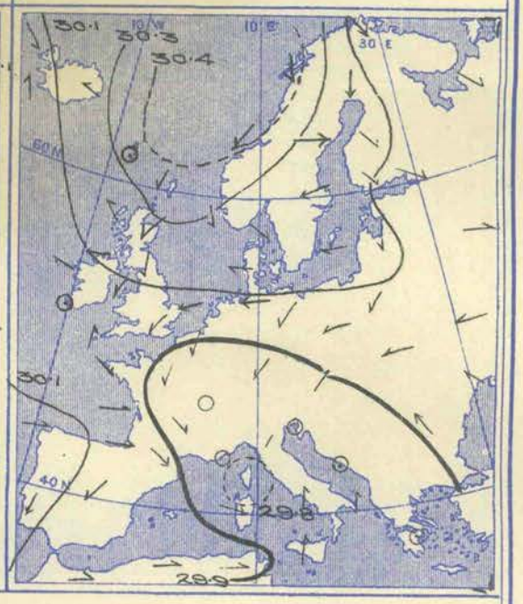
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast or very cloudy in Italy and over the Mediterranean region generally, with rain in a few localities; fair to very bright elsewhere. Thunderstorms later in many parts of France and at several stations in England. Rain falling in Italy and Switzerland, and at Trieste; largest measurement, 0·87 in. at Rome.

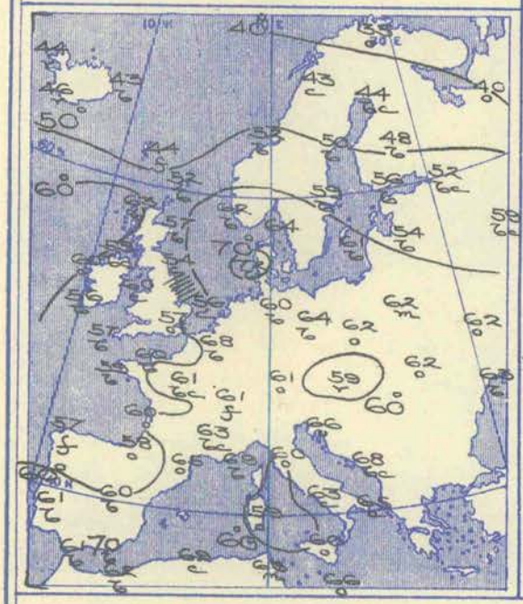
Temperature in morning as high as 69° at Blaavands Huk and Sfax, and 71° at Athens; above 65° in many other localities, and about 60° over a very large area. Below 50° in central Ireland and only 38° at Vardö. Rising later to above 75° in several parts of these Islands, and also in France, central Europe, and Denmark, and to slightly above 80° at Trieste and Malaga. Minima at night very high in this country.

Wind in morning light to strong from the Southward in Iceland, and blowing a gale from North-West at Vardö. A North-Easterly current prevailing over the Baltic, Germany, the North Sea and these Islands; light in force generally, but fresh or strong on the east and south-east coasts of England. A cyclonic circulation of little force shown over the Mediterranean and the south generally. Little change taking place during day.

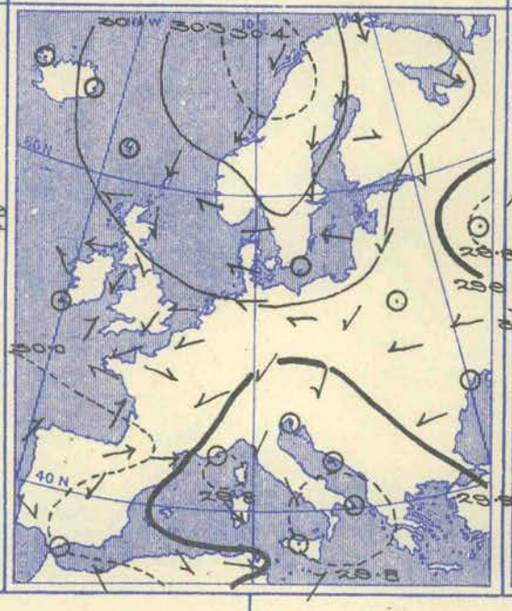
Barometer in morning ranging from above 30·4 in. in an anticyclone having its maximum over the west of Norway and the adjacent portion of the ocean, and above 30·2 in. between Portugal and the Azores to below 29·9 in. in the extreme north of the Continent, and to below 29·8 in. in a well-marked depression over Corsica, Sardinia, and the neighbouring region. No change occurring later in day in the general distribution, but pressure giving way slowly over the south-east of these Islands and the nearer portion of the Continent.

Wednesday, 31st May, 1911.

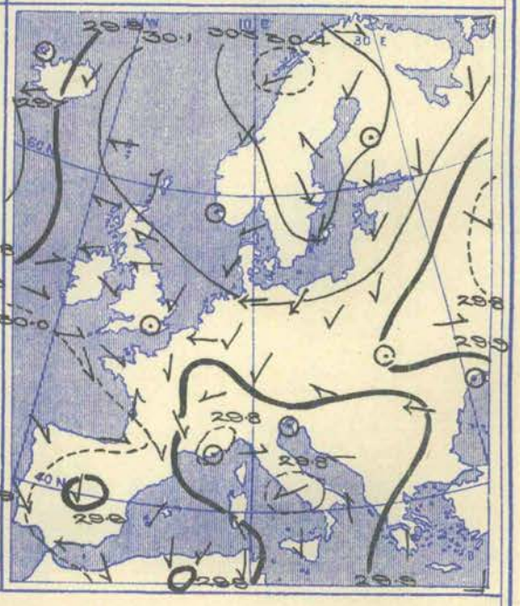
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the greater portion of our area, but dull at many of our own stations, as well as in the south of France and in most parts of Italy. Thunderstorms later in various parts of England and France, with very heavy rain locally, an inch at Greenwich, and 2·86 in. at Epsom. Large quantities of rain experienced in some parts of Austria-Hungary; 1·9 in. at Buda-Pesth.

Temperature risen in a few localities, but fallen generally. Readings in morning 72° at Blaavands Huk, 70° at Malaga, 69° at Nice, and above 65° in several other regions. Below 50° at many stations in the north of our area, and as low as 35° at Vardö. Maxima during day above 70° in many parts of these Islands, and as high as 82° at Greenwich. Thermometer rising to between 70° and 80° over the major portion of the Continent, but only touching 61° at Biarritz. Minima at night high in this country; 56° at Bath and 57° in London and at Liverpool.

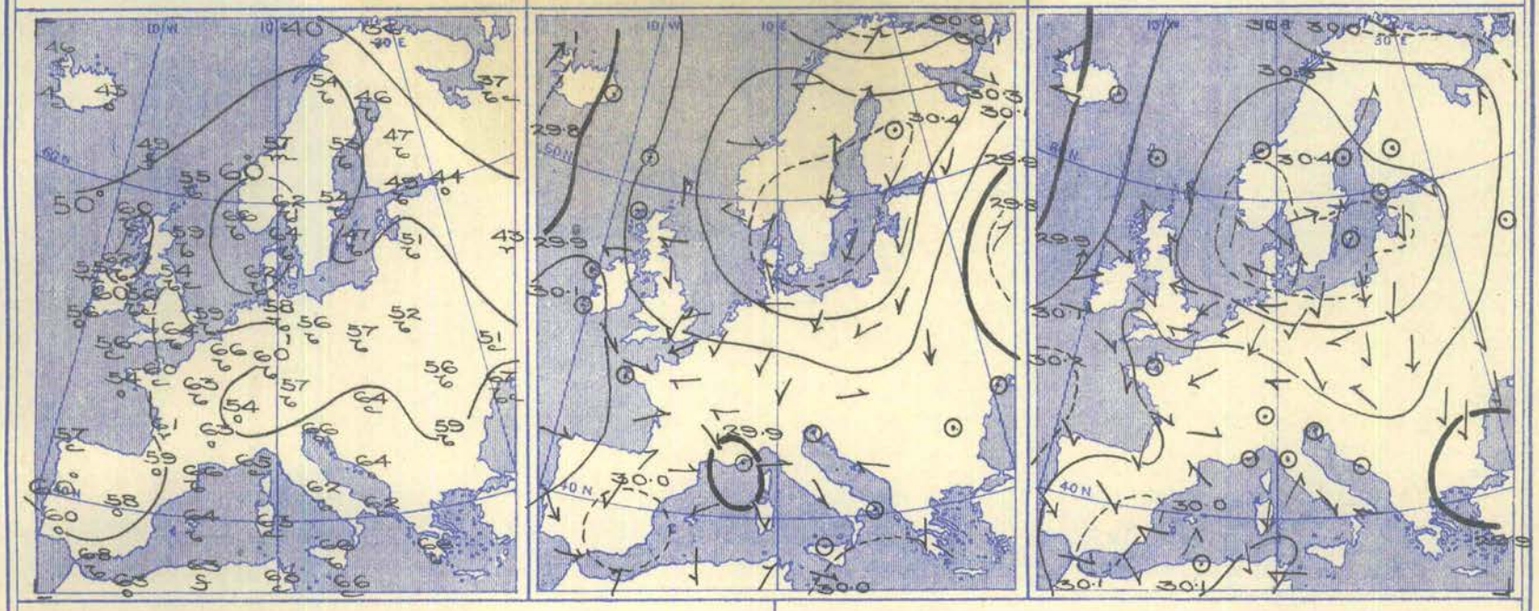
Wind in morning light in force very generally; mainly from between North and East in the northern countries, and from various points in the south. Increasing to a fresh or strong breeze from the Northward on some parts of the Baltic by evening, but no general change occurring.

Barometer in morning above 30·4 in. in a large anticyclone having its centre over the north of Norway; below 29·8 in. in a depression over Russia and also in other systems in the south of our area. Some very shallow and ill-defined irregularities of pressure shown in England and France. No change taking place later in day in the general distribution, and very little in the height of the barometer.

Thursday, 1st June, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to very fine over our area as a whole, but overcast in many parts of France and Italy, with rain at Rochefort and Limoges. Rain also falling at Moscow and Vardö. Thunderstorms later in various parts of Spain, France, and these Islands; considerable rain locally, as much as 0·9 in. at Madrid, and 1·4 in. at Bucharest.

Temperature fallen in most regions. Morning readings ranging from about 65° at several stations in the south of our area and in the south-east of England to below 50° over a large portion of Russia and northern Scandinavia, and to 37° and 36° respectively at Archangel and Vardö. Thermometer rising to above 75° during day over a large portion of this country, and touching 80° at a few stations. A similar degree of heat experienced over a wide area on the Continent.

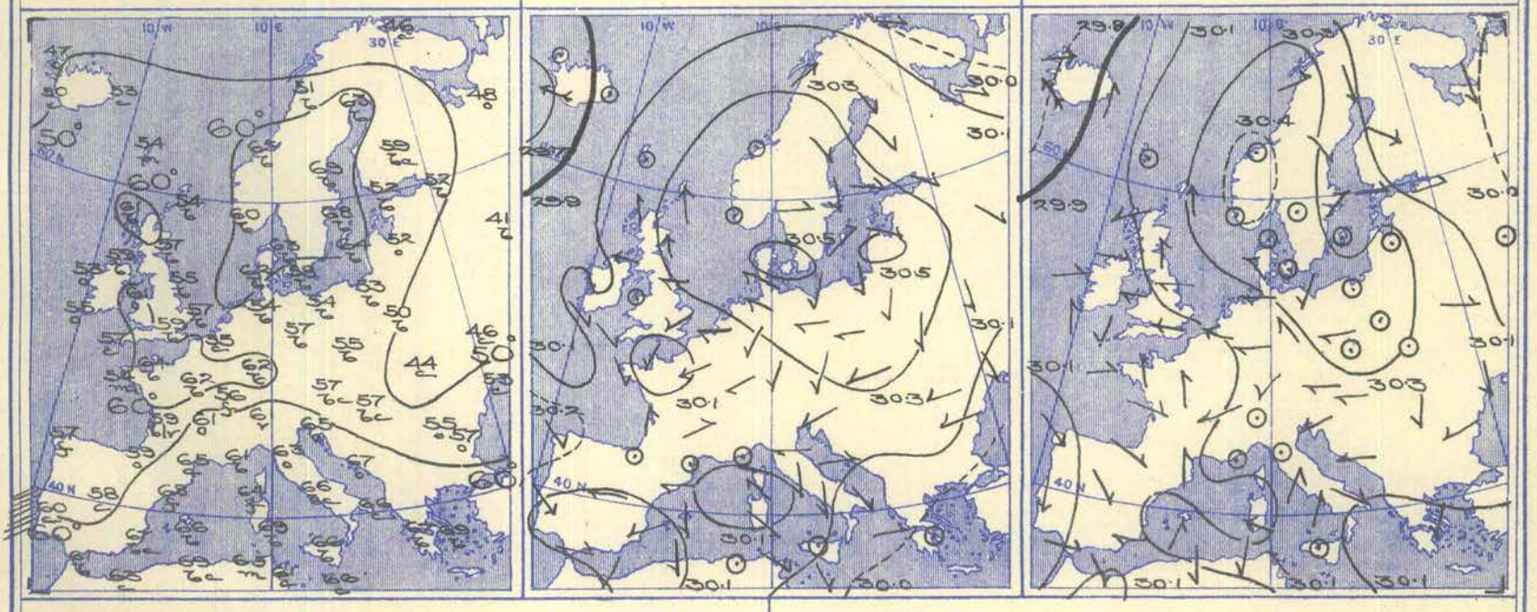
Wind in morning very light throughout our area and variable in places, but mainly anticyclonic except over the Mediterranean and central Russia. No change of great importance later in day; increasing somewhat in force in places.

Barometer in morning above 30·1 in. in a very large high pressure system, with its maximum above 30·4 in. over Scandinavia and Finland; below 30·0 in. in a shallow depression over Spain, and below 29·8 in. in a large system over south-eastern Russia, as well as on the Atlantic to the southward of Iceland. Below 29·9 in. in a small disturbance in the south of France. Pressure giving way decidedly over the south-east of Europe, but little other change occurring; high pressure system maintaining its position and intensity.

Friday, 2nd June, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to fine generally, but overcast in a few places, and rainy at Rochefort and Lugano. Thunderstorms later in various parts of France and at Algiers, with considerable or heavy falls of rain locally. Rain in some parts of the Netherlands, in Switzerland, and at Turin; as much as 1·3 in. at Lugano.

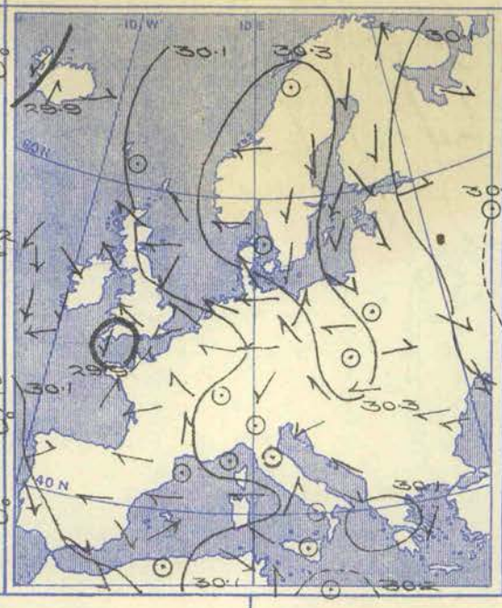
Temperature risen at some southern stations, and also in Sweden. Morning readings ranging from 69° at Algiers and Athens, 68° at Barcelona, and about 65° at several other stations in the south, and between 60° and 69° in Sweden to below 50° over the greater portion of Russia, and to 44° at Lemberg. Maxima during day above 70° over a large portion of the United Kingdom and the greater part of the Continent; above 75° at many of our own stations, 81° at Aberystwyth. Thermometer rising to 81° at Stockholm and to 73° at Haparanda.

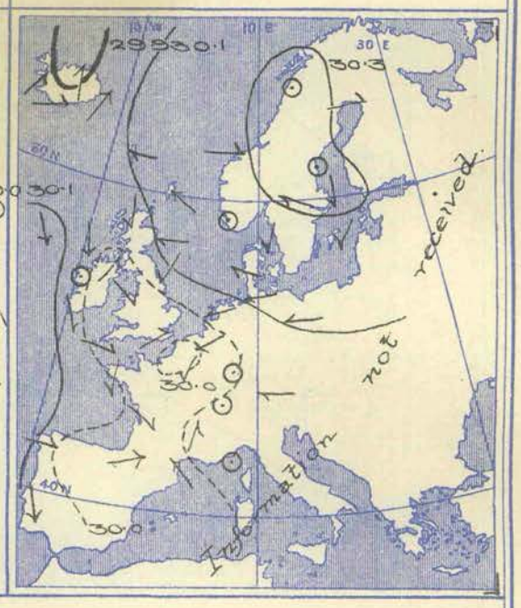
Wind in morning light very generally, but blowing a gale from East in the south-west of Iceland. Anticyclonic over the northern and central countries, cyclonic in the south. No change of a general character later in day. Gale continuing in Iceland.

Barometer in morning above 30·4 in. in a very large high pressure system having its central area over the Baltic; below 29·7 in. in a depression to the south-west of Iceland, and relatively low in very shallow disturbances in the south and south-west of our area. General distribution undergoing little modification during day, but shallow thunderstorm depressions becoming more marked over France.

Saturday, 3rd June, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning fair to fine generally, but overcast at some places in the south and extreme west of our area, and also in the extreme north. Rain falling at Vardö, Turin, and Lisbon, and drizzle and fog prevailing at Jersey. Thunderstorms later in some parts of England and Ireland, and also in France; 0·7 in. of rain falling at Paris, as well as at Munich.

Temperature changed rather irregularly. Morning readings ranging from 72° at Tunis, 70° at Malta, and 69° at Karlstad to a little above or below 60° over a very extensive area to 52° at Wick, below 50° in the far north of Russia, and to 39° at Vardö. Rising to about 80° during day in various parts of Great Britain, but only touching 60° at Leith and 55° at Wick. Maxima above 75° in France, central Europe, and the south of Sweden.

Wind in morning showing an anticyclonic movement over nearly the whole of northern and central Europe, but light cyclonic airs over England and the Bay of Biscay region. A strong gale from the Southward prevailing at Isafjord. Gale subsiding in Iceland by evening, but no change occurring in the general currents. Continuing cyclonic over England and France.

Barometer in morning above 30·3 in. in a large high pressure system with its central area covering nearly the whole of Scandinavia and extending to Hungary; below 29·9 in. over the Bristol Channel in the centre of a large shallow disturbance, and also to the west of Iceland and in the south-east of Russia. Changes subsequently slight and irregular. Pressure increasing in the Azores region.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 23. TWENTY-THIRD WEEK, SUNDAY, JUNE 4TH, TO SATURDAY, JUNE 10TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was dry and very fine. Thunderstorms were experienced, however, in many parts of Great Britain on the 4th, at Portsmouth on the 5th, and at several stations in the south-west of England and the Channel Islands on the 8th. At some localities in Guernsey the storm was very severe.

Temperature was above the average, the excess being as much as 6° in England S.W. and between 4° or 5° in many other parts of the Kingdom. At most places the highest of the maxima were registered between the 5th and 8th. In England N.E. the thermometer rose to 84°, and in several other districts to 83° or 82°. In Scotland N., however, there was no higher reading than 72°. A sudden fall occurred on Thursday evening, and the range of temperature during the week was very large. The lowest of the minima, which were recorded generally on the 10th, varied from 34° in England S.W., 35° in England N.W., and Scotland N., and 36° in some other districts to 40° in Ireland S., and to 52° in the English Channel. The lowest grass readings were 25° at Llangammarch Wells and Burnley, 27° at Southport and Wisley, and 30° at Buxton, Crathes and Markree Castle.

Mean Temperature of the Sea. At nearly all the stations the water was warmer than during the corresponding week of last year, the difference being considerable; at Cromarty it was more than 6°. The means for the week ranged from 61° at Margate, 60° at Eastbourne, Newquay, and Seafield, and 59° at Teelin to 51° at Wick, and to 49° at Lerwick.

Rainfall exceeded the average in the English Channel, owing to the thunderstorm on the 8th, but was scarcely appreciable over the Kingdom generally. At very many stations the week was rainless. At Guernsey the thunderstorm yielded between 1·1 in. and 1·7 in.

Bright Sunshine was above the normal in all districts, the excess being large except in Scotland N. In many districts the values for the week exceeded any previously recorded for the corresponding week of the year. The percentage of the possible duration ranged from 76 in England S.E. and S.W. and 73 in England N.W. and Scotland W. to 58 in Scotland E., 57 in Ireland N. and to 35 in Scotland N.

Barometer and Wind. The pressure distribution over these Islands was mainly anticyclonic, a high pressure system extending over from the Atlantic. The eastern and southern districts, however, were affected at times by depressions over Scandinavia and France, and it was a disturbance in the former region that caused the wind to increase in force from the Northward with the consequent fall of temperature towards the end of the week.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 188.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual
	Rainfall ...	Light	Light	Very light	Very light	Very light	Nought	Light	Nought	Very light	Nought	Very light	Moderate
	Sunshine ...	Moderate	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 1 week from June 4th, 1911.	Warmth ...	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Rainfall ...	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 0
	Sunshine ...	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9720 / 450 Wy. & S., Ltd. 6—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	TWENTY-THIRD WEEK—June 4th to June 10th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	72	35	61·6	47·0	53·8	+ 2·5	83	+ 16	0	− 1	1	− 2	0·11	−0·45	44	+ 4	35	+ 3
Eastern																		
1. SCOTLAND, EAST	81	36	68·9	46·6	57·0	+ 4·5	105	+ 31	0	− 1	1	− 1	0·05	−0·40	71	+ 28	58	+23
2. ENGLAND, N.E.	84	38	68·5	48·7	58·0	+ 4·5	112	+ 32	0	0	1	− 2	0·07	−0·37	71	+ 28	61	+24
3. ENGLAND, EAST	83	39	70·2	49·9	59·4	+ 4·0	122	+ 28	0	0	1	− 2	0·01	−0·52	78	+ 30	68	+27
4. MIDLAND COUNTIES	83	36	73·5	48·6	60·2	+ 4·7	127	+ 32	0	0	1	− 1	0·04	−0·44	72	+ 29	63	+25
5. ENGLAND, S.E.	83	36	72·4	51·2	61·1	+ 4·6	134	+ 32	0	0	0	− 3	0·00	−0·50	86	+ 37	76	+33
Western																		
6. SCOTLAND, WEST	80	39	68·2	48·2	57·5	+ 3·4	109	+ 25	0	0	1	− 2	0·01	−0·57	86	+ 40	73	+34
7. ENGLAND, N.W.	82	35	68·7	49·0	58·2	+ 3·4	113	+ 24	0	0	0	− 3	0·00	−0·44	85	+ 36	73	+31
8. ENGLAND, S.W.	82	34	72·3	52·5	61·8	+ 6·0	139	+ 42	0	0	1	− 2	0·01	−0·49	86	+ 37	76	+33
9 IRELAND, NORTH	79	39	64·7	48·8	56·2	+ 2·1	99	+ 15	0	0	0	− 3	0·00	−0·56	67	+ 24	57	+21
10. IRELAND, SOUTH	82	40	69·8	51·3	59·9	+ 4·4	125	+ 30	0	0	1	− 2	0·01	−0·54	75	+ 29	65	+26
11. ENGLISH CHANNEL	79	52	68·8	55·0	61·4	+ 4·8	136	+ 34	0	0	1	− 2	0·58	+0·14	78	+ 22	70	+20
	THE SEASON (Summer).—Aggregates, &c., for the Period of 1 Week, June 4th to June 10th, 1911.																	
0. SCOTLAND, NORTH	72	35	*	*	*	*	83	+ 16	0	− 1	1	− 2	0·11	−0·45	44	+ 4	35	+ 3
Eastern																		
1. SCOTLAND, EAST	81	36	*	*	*	*	105	+ 31	0	− 1	1	− 1	0·05	−0·40	71	+28	58	+23
2. ENGLAND, N.E.	84	38	*	*	*	*	112	+ 32	0	0	1	− 2	0·07	−0·37	71	+28	61	+24
3. ENGLAND, EAST	83	39	*	*	*	*	122	+ 28	0	0	1	− 2	0·01	−0·52	78	+30	68	+27
4. MIDLAND COUNTIES.. ..	83	36	*	*	*	*	127	+ 32	0	0	1	− 1	0·04	−0·44	72	+29	63	+25
5. ENGLAND, S.E.	83	36	*	*	*	*	134	+ 32	0	0	0	− 3	0·00	−0·50	86	+37	76	+33
Western																		
6. SCOTLAND, WEST	80	39	*	*	*	*	109	+ 25	0	0	1	− 2	0·01	−0·57	86	+40	73	+34
7. ENGLAND, N.W.	82	35	*	*	*	*	113	+ 24	0	0	0	− 3	0·00	−0·44	85	+36	73	+31
8. ENGLAND, S.W.	82	34	*	*	*	*	139	+ 42	0	0	1	− 2	0·01	−0·49	86	+37	76	+33
9. IRELAND, NORTH	79	39	*	*	*	*	99	+ 15	0	0	0	− 3	0·00	−0·56	67	+24	57	+21
10. IRELAND, SOUTH	82	40	*	*	*	*	125	+ 30	0	0	1	− 2	0·01	−0·54	75	+29	65	+26
11. ENGLISH CHANNEL	79	52	*	*	*	*	136	+ 34	0	0	1	− 2	0·58	+0·14	78	+22	70	+20
	THE YEAR.—Aggregates, &c., for the Period of 23 Weeks, January 1st to June 10th, 1911.																	
0. SCOTLAND, NORTH	83	14	*	*	*	*	628§	+113	415	−141	92	−15	21·24	−0·16	584	+ 50	30	+ 3
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	694	+ 89	487	−133	83	− 3	9·58	−2·13	669	+ 59	35	+ 3
2. ENGLAND, N.E.	84	19	*	*	*	*	797	+165	371	−104	70	−10	6·29	−2·63	646	+ 1	34	0
3. ENGLAND, EAST	83	16	*	*	*	*	897	+112	409	−112	75	− 3	7·83	−1·02	731	+ 48	38	+ 3
4. MIDLAND COUNTIES.. ..	83	14	*	*	*	*	918	+104	415	−118	61	−15	6·22	−3·97	618	+ 8	32	0
5. ENGLAND, S.E.	83	16	*	*	*	*	921	+ 52	361	− 20	64	−10	8·03	−2·08	754	+ 75	39	+ 4
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	844	+168	347	− 78	78	−14	16·34	−2·06	693	+ 74	36	+ 4
7. ENGLAND, N.W.	83	17	*	*	*	*	858	+145	314	− 72	67	−17	10·39	−2·34	711	+ 92	37	+ 5
8. ENGLAND, S.W.	82	13	*	*	*	*	916	+ 54	297	− 4	70	−13	11·47	−3·11	752	+ 67	39	+ 4
9. IRELAND, NORTH	79	18	*	*	*	*	829	+ 85	302	− 43	75	−23	10·50	−4·02	695	+ 92	36	+ 5
10. IRELAND, SOUTH	82	18	*	*	*	*	1021	+107	295	+ 36	85	− 4	11·90	−4·17	715	+ 48	37	+ 2
11. ENGLISH CHANNEL	79	28	*	*	*	*	1066	+ 45	135	+ 26	77	−13	9·42	−2·94	826	+ 7	43	0

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for last week slightly altered owing to further information.
‖ Dew.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*66*	*4th*	*41*	*10th*	*54·8*	*45·2*	*49·7*	—	*54*	*0*	*4*	*0·37*	—	*33·9*	—	*26*	—	*Baltasound.*
	a Lerwick	63	4th	41	10th	54·1	46·9	50·3	+ 2·6	58	0	4	0·54	—	41·3	+ 3·9	33	+ 3	Deerness.
	a Stornoway	65	7th	40	10th	59·6	49·6	54·3	+ 4·1	86	0	1	0·02	− 0·51	34·1	− 9·0	28	− 7	Stornoway.
	a *Castlebay, Barra Isd.*	*64*	*7th*	*44*	*10th*	*58·3*	*50·1*	*53·9*	+ *6·4*	*83*	*0*	*0*	*0·00*	—	*45·2*	—	*37*	—	*Castlebay.*
0. b, Mainland.	a Wick	65	5th, 7th	40	10th	59·6	47·6	53·2	+ 3·0	78	0	1	0·05	− 0·37	*	*	*	*	* *
	p Strathpeffer.. ..	69	4th, 6th	41	10th	65·7	47·6	56·0	+ 4·2	98	0	0	0·00	− 0·43	51·4	+13·6	42	+11	Strathpeffer.
	p Glencarron .. S	64	7th	35	10th	60·5	46·0	52·8	+ 2·1	76	0	1	0·13	− 0·84	*	*	*	*	* *
	p Fort Augustus S	72	6th	35	10th	65·2	44·7	54·2	+ 2·3	85	0	0	0·00	− 0·47	47·0	+15·7	39	+13	Fort Augustus.
	p Fort William S	71	6th, 7th	38	10th	66·5	46·9	56·0	+ 3·0	98	0	0	0·00	− 0·83	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	74	5th, 7th	38	10th	66·9	46·4	55·9	+ 3·6	97	0	1	0·13	− 0·35	*55·4*	—	*45*	—	*Gordon Castle.*
	a Nairn	74	7th	43	6, 7, 10th	66·0	46·9	55·8	+ 3·4	97	0	0	0·00	− 0·39	71·9	—	59	—	Nairn.
	a Aberdeen	75	4th, 7th	40	10th	66·9	48·0	56·8	+ 5·1	104	0	1	0·01	− 0·42	68·4	+25·0	56	+21	Aberdeen.
	a Balmoral .. S	79	6th	36	4th, 6th	70·3	40·4	54·3	+ 4·1	93	4	1	0·05	− 0·47	68·6	—	57	—	Crathes S.
	p Crieff .. .. S	81	7th	42	10th	73·4	47·1	59·3	+ 5·3	121	0	0	0·00	− 0·62	74·2	—	62	—	Balruddery.
	a Leith	80	7th	45	10th	69·7	51·3	59·9	+ 6·3	125	0	0	0·00	− 0·40	*	*	*	*	* *
	p West Linton.. S	78	7th	37	10th	69·0	43·4	55·3	+ 4·6	93	0	0	0·00	—	*77·9*	—	*66*	—	*West Linton.*
	p Marchmont .. S	79	7th	43	10th	69·0	48·9	58·3	+ 6·8	114	0	1	0·21	− 0·32	69·9	+27·9	59	+23	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	73	7th	42	10th	66·2	48·2	56·6	+ 4·6	102	0	2	0·23	− 0·24	69·0	—	59	—	Cockle Park.
	a Shields	75	5th	42	10th	65·3	48·6	56·4	+ 4·4	101	0	3	0·26	− 0·17	*47·2*	*+13·9*	*40*	*+12*	*Newcastle.*
	p Durham	79	5th, 7th	40	7th	70·4	47·0	57·9	+ 4·8	111	0	1	0·05	− 0·37	66·0	+26·5	56	+22	Durham.
	p Rounton .. M	79	8th	40	10th	69·2	46·3	57·0	+ 5·0	105	0	1	0·02	− 0·44	*	*	*	*	* *
	p Scarborough.. M	77	8th	47	7, 8, 10th	64·1	50·6	56·9	+ 3·6	104	0	2	0·05	− 0·38	72·5	—	62	—	Scarborough.
	p York	81	5th, 8th	40	10th	71·3	48·4	59·1	+ 3·9	120	0	0	0·00	− 0·47	66·8	+26·4	57	+23	York.
2. b, South.	a Spurn Head	78	8th	46	10th	64·0	52·4	57·8	+ 3·8	111	0	0	0·00	− 0·34	*	*	*	*	* *
	a Lincoln	82	5th	39	10th	72·4	49·8	60·3	+ 4·4	128	0	0	0·00	− 0·44	82·4	—	71	—	Skegness.
	a Fulbeck .. —	84	5th	38	10th	73·8	47·4	59·7	+ 4·5	124	0	0	0·00	− 0·44	69·0	—	60	—	Rauceby.
															86·4	—	*75*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	74	8th	46	10th	65·1	50·0	57·0	+ 3·0	105	0	2	0·03	—	77·4	—	67	—	Cromer.
	p Hillington .. M	80	8th	43	10th	71·5	47·8	58·8	+ 3·9	118	0	0	0·00	− 0·48	78·4	+32·2	68	+28	Hillington.
	a Yarmouth .. —	73	5th	48	10th	64·6	53·1	58·5	+ 4·3	116	0	0	0·00	− 0·40	82·8	—	72	—	Yarmouth.
	a Norwich	78	5th, 8th	41	10th	70·7	50·1	59·7	+ 5·2	124	0	2	0·03	—	*	*	*	*	* *
	p Geldeston	80	5th	41	10th	69·7	47·7	57·9	+ 3·3	111	0	0	0·00	− 0·42	79·0	+29·4	69	+26	Geldeston.
3. b, South.	p Cambridge	82	4th	39	10th	74·3	43·3	60·4	+ 4·3	129	0	0	0·00	− 0·47	72·8	+25·8	64	+23	Cambridge.
	a *Felixstowe*	*70*	*4th*	*40*	*10th*	*63·9*	*50·3*	*56·6*	+ *1·6*	*102*	*0*	*0*	*0·00*	—	*82·1*	—	*72*	—	*Felixstowe.*
	a Clacton-on-Sea ..	72	5th	40	10th	67·1	51·4	58·7	+ 4·0	117	0	0	0·00	—	80·1	—	70	—	Clacton.
	a Rothamsted ..	80	5th	39	10th	74·1	48·7	60·5	+ 5·6	130	0	0	0·00	− 0·46	71·3	+25·5	63	+22	Rothamsted.
	a *Shoeburyness* —	*77*	*5th*	*42*	*10th*	*69·1*	*50·3*	*59·1*	+ *1·5*	*120*	*0*	*0*	*0·00*	− *0·26*	*81·1*	—	*72*	—	*Southend.*
	p Tottenham	83	5th	41	10th	74·9	52·1	62·7	+ 6·4	145	0	0	0·00	—	81·7	—	72	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	79	8th	39	10th	69·0	48·7	58·1	+ 5·2	113	0	1	0·04	− 0·48	67·8	—	58	—	Harrogate.
	a Bawtry	82	5th, 8th	39	10th	72·4	46·4	58·5	+ 3·1	116	0	1	0·02	− 0·39	64·7	+26·5	56	+23	Worksop.
	p *Buxton* .. M	*79*	*8th*	*35*	*10th*	*69·5*	*46·9*	*57·4*	+ *5·8*	*108*	*0*	*0*	*0·00*	− *0·71*	*73·6*	—	*63*	—	*Buxton.*
	a Nottingham ..	81	5th	42	10th	72·9	49·0	60·1	+ 4·8	127	0	1	0·31	− 0·13	68·6	—	60	—	Nottingham.
	p Birmingham, Edgbsn	81	8th	41	10th	73·4	50·9	61·4	+ 6·5	136	0	1	0·05	− 0·45	65·1	—	57	—	Birmingham.
	a Raunds .. M	83	5th	38	10th	74·5	48·9	60·8	+ 5·5	132	0	0	0·00	—	*	*	*	*	* *
	a Oxford	82	5th	40	10th	74·4	51·0	61·9	+ 5·9	139	0	0	0·00	− 0·45	79·2	+33·8	70	+30	Oxford.
4. b, West.	a Cheadle .. M	79	8th	38	10th	72·4	48·9	59·8	+ 6·2	125	0	0	0·00	− 0·54	60·5	—	52	—	Sheffield.
	p Shrewsbury	82	8th	36	10th	74·5	45·1	58·8	+ 3·2	118	0	0	0·00	—	*	*	*	*	* *
	a Hereford .. M	80	8th	36	10th	74·7	47·4	60·1	+ 4·2	127	0	0	0·00	− 0·51	*	*	*	*	* *
	a Cirencester	79	5th	40	10th	74·5	48·6	60·6	+ 5·9	130	0	0	0·00	− 0·51	79·3	+32·3	70	+28	Cirencester.
	a Bath	81	4th	41	10th	75·9	50·1	62·1	+ 6·0	141	0	0	0·00	− 0·51	91·8	—	81	—	Bath.
															84·6	—	*75*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	81	5th	42	10th	73·9	52·5	62·5	+ 6·0	144	0	0	0·00	− 0·45	76·3	+30·2	68	+27	Kew.
	a Marlborough ..	80	4th, 5th	36	10th	74·9	45·6	59·2	+ 5·0	120	0	0	0·00	− 0·50	82·1	+39·2	73	+35	Marlborough.
	a Margate	78	4th	50	8th, 10th	66·7	53·7	59·8	+ 4·3	125	0	0	0·00	− 0·39	76·1	+31·5	67	+28	Margate.
	a Wisley, Surrey ..	83	4th	38	10th	75·5	49·6	61·6	+ 4·8	137	0	0	0·00	—	82·8	—	73	—	Wisley.
	a Swarraton .. M	79	4th, 5th	39	10th	73·8	48·0	60·0	+ 5·4	126	0	0	0·00	− 0·50	93·5	—	83	—	Worthing.
	a Tunbridge Wells M	83	5th	40	10th	73·9	49·8	61·0	+ 5·8	133	0	0	0·00	− 0·48	86·6	+39·3	77	+35	Tunbridge Wells.
	a Dungeness	70	6th, 9th	45	10th	66·1	53·3	59·3	+ 4·0	121	0	0	0·00	− 0·32	83·3	—	74	—	Littlestone.
	p Hastings	79	6th	44	10th	71·1	52·2	61·0	+ 5·2	133	0	0	0·00	− 0·40	*89·6*	*+35·5*	*79*	*+31*	*Hastings.*
	p Southampton ..	83	5th	45	10th	76·4	52·6	63·7	+ 5·9	152	0	0	0·00	− 0·44	89·2	+39·1	79	+35	Southampton.
	a Ventnor	78	6th	47	10th	71·6	54·7	62·6	+ 6·1	144	0	0	0·00	− 0·41	93·2	+44·7	83	+40	Ventnor.
															93·5	+42·1	83	+37	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*83*	*5th*	*56*	*10th*	*75·3*	*54·6*	*64·2*	+ *7·5*	*155*	*0*	*0*	*0·00*	− *0·45*	*76·4*	*+37·1*	*68*	*+33*	*Westminster.*
	a *Greenwich*	*84*	*5th*	*42*	*10th*	*75·3*	*50·1*	*61·8*	+ *4·7*	*139*	*0*	*0*	*0·00*	− *0·45*	*81·9*	*+37·2*	*73*	*+33*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	68	7th	40	6th	63·6	45·1	53·7	− 0·1	82	0	0	0·00	− 0·66	*	*	*	*	* *
	p Glasgow	74	7th	47	10th	68·0	49·9	58·3	+ 4·9	114	0	0	0·00	− 0·57	78·3	+40·5	66	+34	Glasgow.
	p Rothesay .. S	73	6th	44	7th	68·3	48·7	57·8	+ 4·1	111	0	0	0·00	− 0·66	*	*	*	*	* *
	a Kilmarnock	73	7th	42	5th	67·7	45·6	55·9	+ 2·1	97	0	0	0·00	—	*83·8*	—	*70*	—	*Kilmarnock.*
	a Colmonell .. S	72	8th	40	7th	67·1	47·4	56·6	+ 2·7	102	0	0	0·00	− 0·57	*	*	*	*	* *
	p Dumfries .. S	78	7th, 8th	39	10th	71·4	49·7	59·8	+ 5·1	125	0	1	0·07	− 0·46	*82·8*	—	*70*	—	*Dumfries.*
	p Cally, Gatehouse S	80	8th	45	10th	71·8	47·9	59·0	+ 5·4	119	0	0	0·00	− 0·66	*	*	*	*	* *
6. b, ISLE OF MAN ..	p Douglas	74	7th	48	10th	67·8	51·3	59·0	+ 5·7	119	0	0	0·00	− 0·59	94·4	+43·1	81	+37	Douglas.
															81·7	—	70	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	75	8th	40	10th	69·4	49·2	58·6	+ 5·3	116	0	0	0·00	− 0·54	91·6	—	78	—	Aspatria.
	p Newton Rigg ..	79	4th, 8th	35	10th	71·9	45·9	58·0	+ 5·2	112	0	0	0·00	− 0·52	83·9	+36·4	71	+31	Newton Rigg.
	p Stonyhurst	77	7th	37	10th	69·1	48·3	58·0	+ 3·8	112	0	0	0·00	− 0·65	78·0	+32·8	67	+28	Stonyhurst.
	p Blackpool .. M	72	8th	35	10th	65·9	46·8	55·7	+ 1·2	96	0	0	0·00	− 0·49	90·6	+44·4	78	+38	Blackpool.
	p M'nch'ster, Prestwich	82	8th	38	10th	73·5	47·8	59·8	+ 5·6	125	0	0	0·00	− 0·60	*73·2*	*+35·3*	*63*	*+30*	*Prestwich.*
	a Liverpool (Bidston)	80	8th	45	10th	66·9	52·9	59·4	+ 4·9	122	0	0	0·00	− 0·48	*83·3*	—	*72*	—	*Liverpool.*
	a Hawarden Bridge ..	81	8th	40	10th	68·6	49·9	58·6	+ 2·9	116	0	0	0·00	− 0·44	*89·5*	*+39·9*	*77*	*+34*	*Southport.*
															84·8	—	*73*	—	*Rhyl.*
7. b, NORTH WALES ..	p Llandudno .. M	79	5th, 8th	44	10th	69·9	52·6	60·7	+ 5·7	131	0	0	0·00	− 0·44	87·4	+40·2	75	+35	Llandudno.
	a Holyhead	65	7th	46	10th	61·7	50·9	55·9	+ 1·9	·97	0	0	0·00	− 0·46	90·7	—	79	—	Aberdovey.
	p Bettws-y-Coed ..	82	8th	37	10th	70·3	46·0	57·3	+ 2·9	107	0	0	0·00	—	74·6	—	65	—	Bettws-y-Coed.
															85·2	—	74	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	79	5th	34	10th	73·7	43·8	57·7	+ 4·0	110	0	0	0·00	—	76·9	—	68	—	Llangammarch Wells.
	a Pembroke	74	8th	49	10th	66·4	52·9	59·2	+ 5·2	120	0	0	0·00	− 0·44	98·5	+46·5	86	+41	Pembroke.
	p Cardiff	79	4th, 5th	43	10th	74·4	51·2	62·0	+ 5·3	140	0	0	0·00	− 0·55	*89·3*	—	*79*	—	*Cardiff.*
															95·5	*+43·3*	*84*	*+38*	*Tenby.*
8. b, ENGLAND, S.W. ..	a Clifton	82	8th	45	10th	76·5	54·7	64·8	+ 8·1	160	0	0	0·00	− 0·51	*88·0*	—	*78*	—	*Clifton.*
	a Shaftesbury .. M	80	5th	42	10th	73·9	51·4	61·9	+ 8·5	139	0	1	0·12	− 0·41	*	*	*	*	* *
	a Arlington	78	6th	47	10th	73·3	52·1	62·0	+ 8·4	140	0	0	0·02‖	− 0·66	78·8	+27·1	70	+24	Newquay.
	a Cullompton .. M	82	5th	48	8th	77·3	52·2	63·9	+ 8·1	153	0	0	0·00	− 0·49	91·0	+44·3	81	+39	Cullompton.
	a Portland Bill ..	76	6th	49	10th	66·9	53·6	59·8	+ 4·6	125	0	0	0·00	—	*88·8*	—	*79*	—	*Weymouth.*
	p Plymouth	81	6th	51	10th	72·4	56·5	63·9	+ 7·2	153	0	0	0·00	− 0·48	84·5	+33·8	75	+30	Plymouth.
	p Falmouth	74	6th	53	10th	68·5	57·0	62·4	+ 7·0	143	0	0	0·00	− 0·52	86·8	+32·6	78	+29	Falmouth.
															84·2	—	*75*	—	*Salcombe.*
															89·5	*+36·7*	*80*	*+33*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	65	7th, 8th	48	6th	59·3	50·3	54·5	+ 2·0	88	0	0	0·00	− 0·48	*	*	*	*	* *
	a Blacksod Point ..	68	8th	50	4th, 5th	62·3	51·9	56·7	+ 3·0	103	0	0	0·00	− 0·60	*	*	*	*	* *
	p Markree Castle ..	78	7th, 8th	39	5th, 10th	68·9	45·5	56·4	+ 3·4	101	0	0	0·00	− 0·63	70·9	+30·4	61	+26	Markree Castle.
	a Birr Castle	79	8th	40	10th	69·9	48·4	58·4	+ 4·0	115	0	0	0·00	− 0·51	*56·2*	*+16·4*	*49*	*+14*	*Birr Castle.*
9. b, East.	p Armagh	73	7th	43	10th	67·1	47·9	56·8	+ 3·4	104	0	0	0·00	− 0·56	62·2	+21·6	53	+19	Armagh.
	a Donaghadee	64	5th, 8th	46	10th	60·7	48·7	54·3	+ 0·6	86	0	0	0·00	− 0·52	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	71	8th	50	10th	66·9	54·0	60·0	+ 4·0	126	0	0	0·00	− 0·44	72·6	+26·3	63	+23	Phœnix Park.
	a Kilkenny	77	8th	45	10th	69·6	50·3	59·3	+ 4·6	121	0	1	0·04	− 0·49	*	*	*	*	* *
	a Waterford	81	8th	47	10th	72·9	53·0	62·3	+ 6·9	142	0	0	0·00	− 0·60	*	*	*	*	* *
10. b, West.	a Birr Castle	79	8th	40	10th	69·9	48·4	58·4	+ 4·0	115	0	0	0·00	− 0·51	56·2	+16·4	49	+14	Birr Castle.
	a Foynes	78	8th	45	5th	68·6	51·8	59·6	+ 4·3	123	0	0	0·00	− 0·55	*	*	*	*	* *
	a Cahir .. .. M	82	7th	43	10th	71·7	50·5	60·4	+ 5·5	129	0	1	0·01	—	*	*	*	*	* *
	a Killarney	80	8th	44	10th	73·2	49·9	60·7	+ 6·0	131	0	0	0·00	− 0·67	*	*	*	*	* *
	a Valencia	79	8th	43	5th	68·4	50·0	58·6	+ 3·5	116	0	0	0·00	− 0·73	89·4	+43·9	78	+39	Valencia.
	a Roche's Point ..	70	8th	48	10th	67·1	53·4	59·8	+ 4·7	125	0	0	0·00	− 0·63	80·6	—	71	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	?70	8th	?53	10th	64·7	54·4	59·2	+ 3·5	120	0	0	0·00	− 0·37	74·3	+18·3	66	+16	Scilly.
	a Jersey, St. Aubins ..	79	5th	54	4th, 10th	72·4	56·4	63·8	+ 6·7	153	0	1	0·63	+ 0·16	83·3	+27·3	75	+25	St. Heliers.
	a Guernsey	77	5th	52	4th, 10th	69·3	54·3	61·3	+ 4·9	135	0	1	1·10	+ 0·60	76·6	+17·9	69	+16	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 99·8 hrs. (+47·9 hrs.), 88 % (+42 %); Bournemouth, 91·1 hrs., 81 %; Bognor, hrs., %.* For notes see opposite page.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	53·0	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	51·5
	Crathes	1	30	58·9	52·6
	Balmoral	0	33	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	40	60·0	—
2.	Cockle Park	0	36	63·2	55·4
	Durham	0	35	—	—
	York	—	—	59·6	53·6
	Hull	0	36	59·3	51·4
	Lincoln	—	—	62·0	53·5
	Rauceby	0	36	65·5	54·9
3.	Norwich	0	35	—	—
	Yarmouth	—	—	65·9	57·9
	Lowestoft	—	39	62·9	55·4
	Cambridge	0	32	63·9	56·6
	Clacton-on-Sea ..	0	33	61·1	55·9
	Southend	0	39	65·9	—
	Tottenham	0	38	—	57·8
4.	Harrogate	0	33	57·8	54·3
	Huddersfield ..	0	34	62·0	51·8
	Buxton	0	30	58·0	50·5
	Sheffield	0	37	58·8	51·5
	Nottingham.. ..	0	36	63·9	55·4
	Birmingham.. ..	0	31	58·0	50·9
	Oxford	0	—	—	—
	Hereford	0	32	—	—
	Cirencester	0	35	61·6	54·5
	Bath	—	—	64·3	57·6
5.	Margate	0	42	61·0	55·7
	Greenwich	0	33	—	—
	Westminster ..	0	41	—	—
	Kew	0	34	62·8	54·7
	Canterbury	0	41	63·6	56·8
	Tunbridge Wells ..	0	35	64·8	—
	Wisley	1	27	64·4	56·5
	Worthing	0	41	65·3	56·7
	Portsmouth	0	42	65·5	58·1
6.	Glasgow	0	37	—	—
	Rothesay	—	—	—	53·1
	Colmonell	0	34	—	—
6.	Dumfries	0	33	63·7	56·7
	Douglas	0	45	—	—
7.	Aspatria	0	32	61·4	52·3
	Newton Rigg ..	0	31	61·1	52·8
	Burnley	1	25	59·7	52·1
	Southport	1	27	64·2	57·9
	Manchester City ..	0	36	62·9	56·0
	Bettws-y-Coed ..	0	36	61·0	53·6
8.	Llangammarch Wells	2	25	59·0	51·5
	Cardiff	0	41	64·3	55·6
	Clifton	0	40	—	—
	Plymouth	0	40	67·1	—
9.	Armagh	0	34	60·3	54·6
	Markree	1	30	60·8	53·9
10.	Dublin, Trin. Coll. ..	0	37	61·5	55·5
11.	Guernsey, Brooklyn	0	41	63·3	56·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, N.	Lerwick	50	49	49·4
	Kirkwall	56	52	54·5
	Wick	51	50	50·8
SCOTLAND E.	Cromarty	61	53	57·8
	Pennan Bay	54	50	52·6
	Aberdeen, Cove Bay ..	51	50	50·4
ENGLAND, N.E.	Burnmouth, Berwick ..	53	50	51·8
	Scarborough	57	51	54·2
ENGLAND, E.	Shipwash Lightship ..	58	56	57·0
	Margate‡	63	60	61·4
ENGLAND, S.E.	Eastbourne‡	62	59	60·1
SCOTLAND, W.	Lamlash	60	54	55·7
	Ballantrae	57	52	54·7
ENGLAND, N.W.	Port Erin	58	50	52·3
ENGLAND, S.W.	Newquay	61	59	60·1
	Scilly	60	55	57·9
	Plymouth‡	57	55	55·8
	Salcombe	58	53	55·3
IRELAND, N.W.	Sheephaven	58	56	57·1
	Teelin	61	57	58·9
IRELAND, S.W.	Cleggan	57	54	55·2
	Seafield	67	57	60.0
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); —— = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

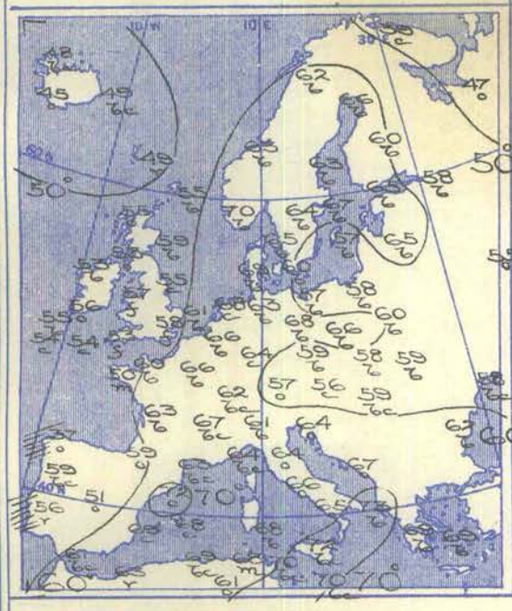
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 4th June, 1911.

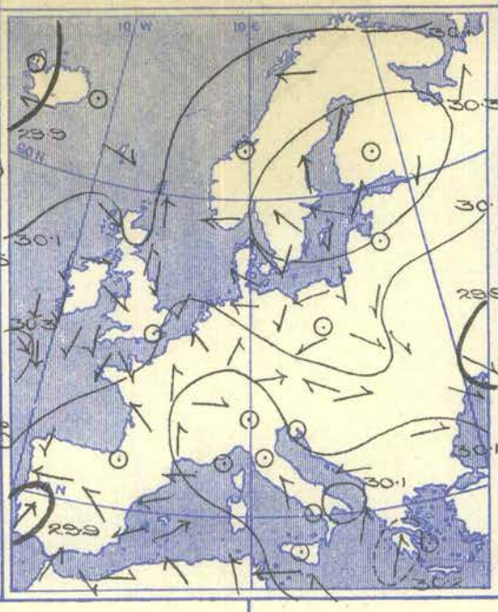
Temperature and Weather.

7 a.m.

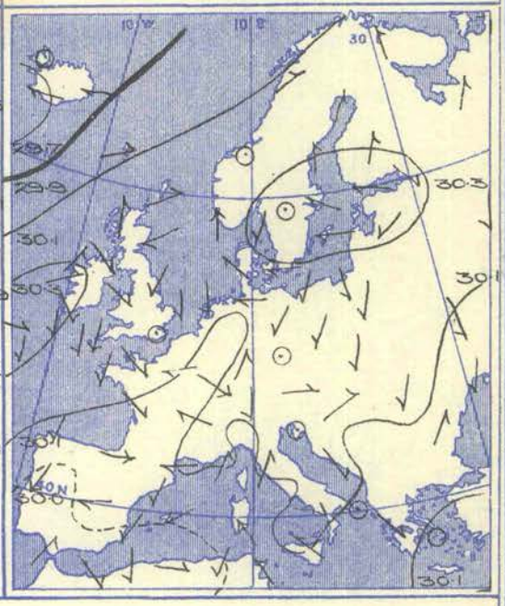


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright generally, but dull, with rain in places, in the south of Russia, and also in the Spanish Peninsula. Rain falling at Thorshavn. Thunder later in various parts of the Kingdom, and thunderstorms experienced in various parts of France and Algeria. About 0·5 in. of rain at Patras and Malaga, and smaller amounts in a few other Continental localities.

Temperature changed slightly and irregularly. Morning readings 73° at Brindisi, 72° at Palermo and Barcelona and above 65° over a large area including a considerable portion of northern Europe; below 50° in the extreme north of Russia and Scandinavia, and 44° at Kharkoff. Rising later to between 79° and 82° in several English districts and also over the greater part of the Continent. Thermometer touching 91° at Tunis. Minima during night as high as 59° in some parts of southern England.

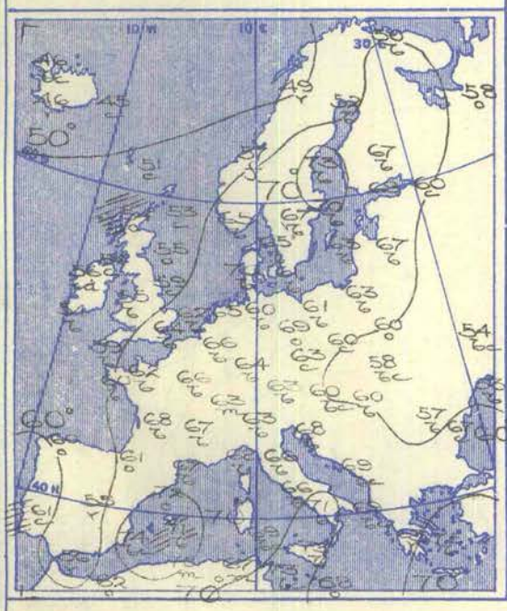
Wind light or moderate in force and rather variable in direction. Mainly anticyclonic except in the South, South-East, and extreme North-East of our area. No change of importance occurring later.

Barometer in morning above 30·3 in. in a large anticyclonic system centred over Finland, and about as high in another system between Ireland and the Azores. Below 29·9 in. in a depression over southern Russia and also in another having its minimum in Portugal. Some very shallow and ill-defined irregularities over these Islands. Scarcely any change taking place later in the general distribution of pressure.

Monday, 5th June, 1911.

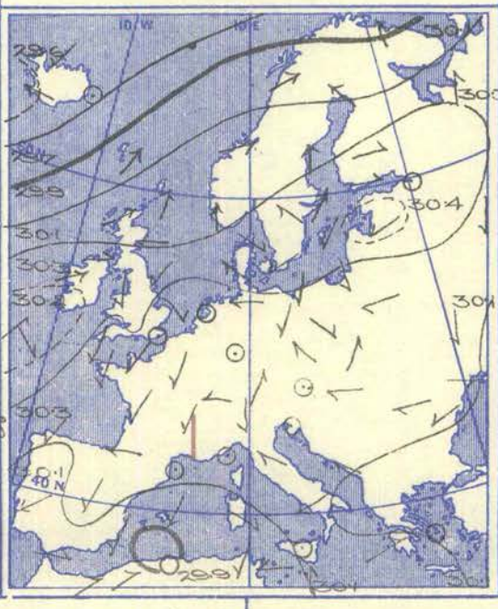
Temperature and Weather.

7 a.m.

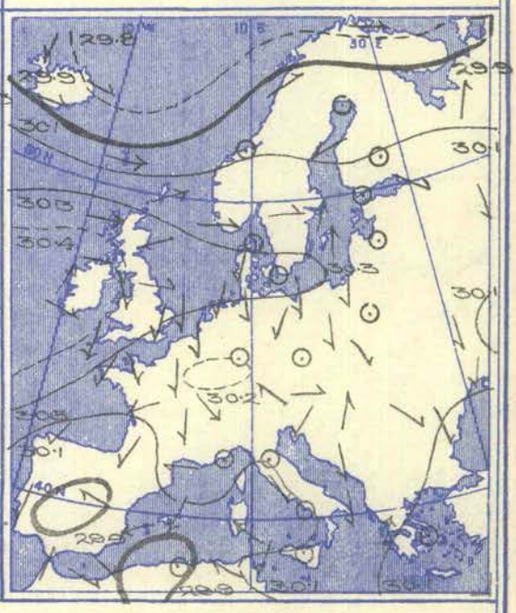


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over the major portion of our area, but rainy at Blacksod Point, Bodö, Patras, and in some Spanish and Algerian localities. A considerable amount of rain falling in Little Russia and at some Spanish stations later, and a thunderstorm occurring at Nancy. Smaller quantities experienced in Norway and in a few places in central Europe.

Temperature risen in most regions, but changes rather irregular. Morning readings ranging from 70° at Stockholm and on the coast of Jutland, and a little higher at Hernösand and at some places on the shores of the Mediterranean, to 51° at Birr Castle and to 49° at Bodö. Thermometer as high as 60° at Vardö. Maxima during day 88° at Greenwich and a little above 80° in several other parts of England, as well as in France, the Netherlands, and central and southern Europe. Maximum as high as 99° in central Algeria.

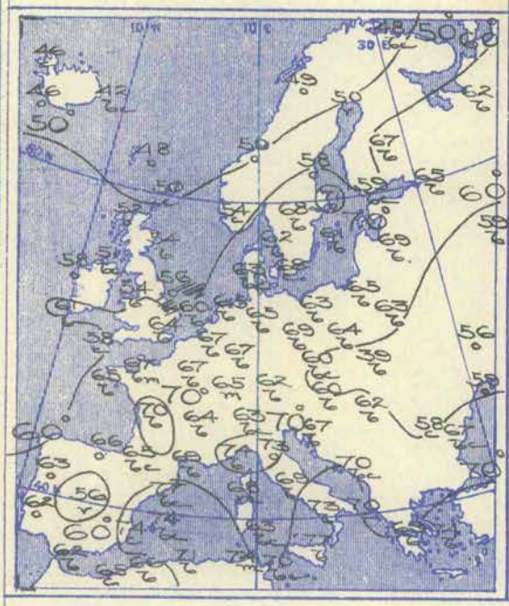
Wind in morning anticyclonic except in the north and south of our area, and of little force. A brisk South-Westerly current prevailing between Scotland and Iceland, and a strong breeze from the North-Eastward at Palma. Becoming high from West at Thorshavn by evening and from East at Alicante, but no other change.

Barometer in morning above 30·3 in. in an anticyclonic band stretching from the Azores across these Islands to the north of Russia. Below 29·9 in. in a depression between Spain and Algeria, and below 29·6 in. to the westward of Iceland. No important change taking place during day in the general distribution of pressure. A depression moving Eastward in the extreme north and a minimum forming in central Spain.

Tuesday, 6th June, 1911.

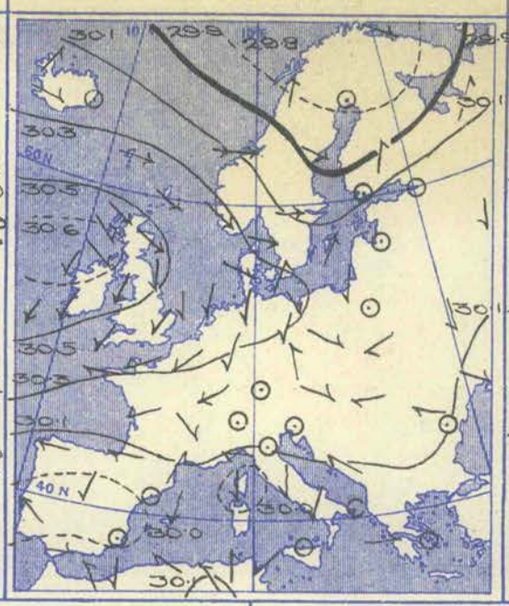
Temperature and Weather.

7 a.m.

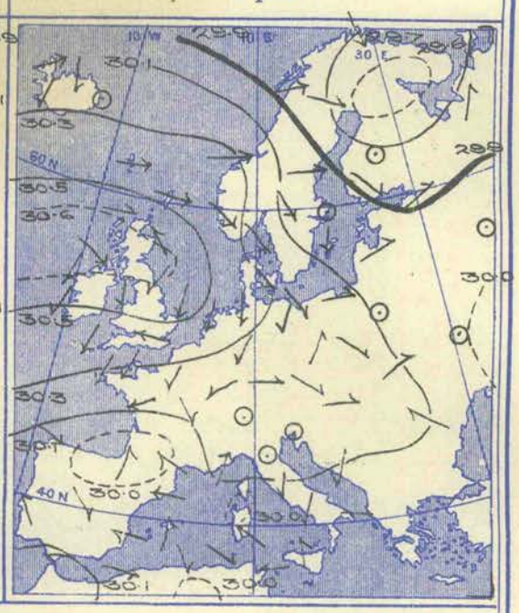


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine over our area generally, but overcast in Norway and the north of Scotland, and rainy at Corunna and Madrid, and also at Nicolaieff. Rain experienced later in northern Russia and Finland, with a thunderstorm at St. Petersburg, some rain also falling at Rome.

Temperature showing no general change. Readings in morning ranging from 77° at Barcelona and above 70° at some other southern stations and at Stockholm, to about 50° in the north-west and north of Norway. Maxima during day 80° or slightly higher in many parts of southern England and in central and southern Europe, and also in Belgium; nearly 90° in some French localities, and 97° at Tunis.

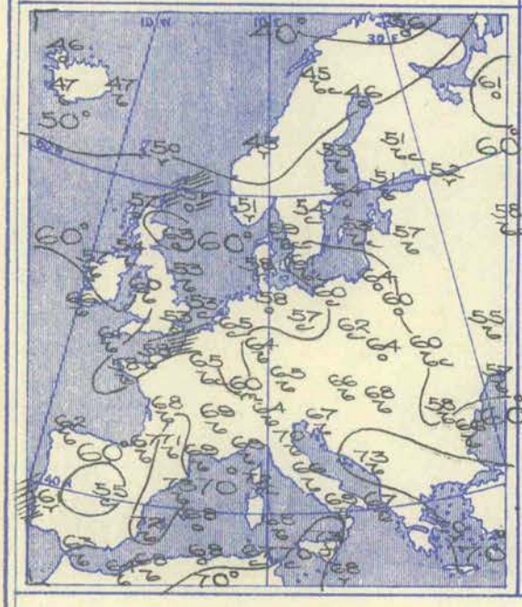
Wind in morning mainly anticyclonic over the United Kingdom and the central countries of the Continent, cyclonic in the north and south. Westerly current strong or high to a gale in Shetland and on the west coast of Norway, and a fresh breeze prevailing in a few other parts of our area, but very light to moderate generally. Increasing in force from between North-East and North-West by evening over the North Sea region, but little general change.

Barometer in morning above 30·4 in. over these Islands and the North Sea, and relatively high thence to central and northern Russia; below 30·0 in. in a large depression of little intensity over the Spanish Peninsula, and below 29·8 in. in another disturbance in the far north of the Continent. Pressure distribution undergoing little change during day, but gradient increasing somewhat over Denmark and Scandinavia.

Wednesday, 7th June, 1911.

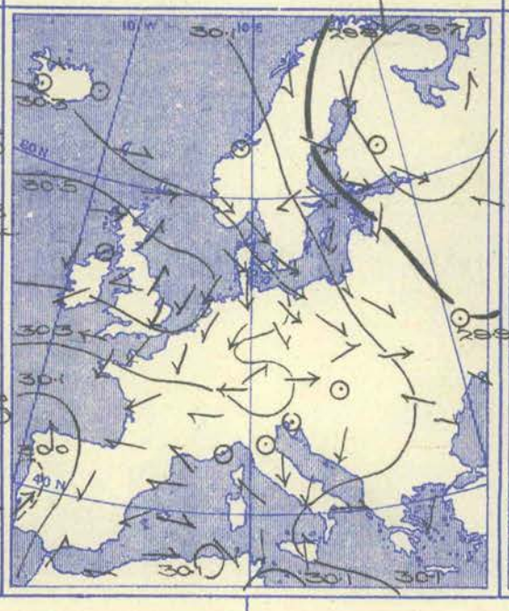
Temperature and Weather.

7 a.m.

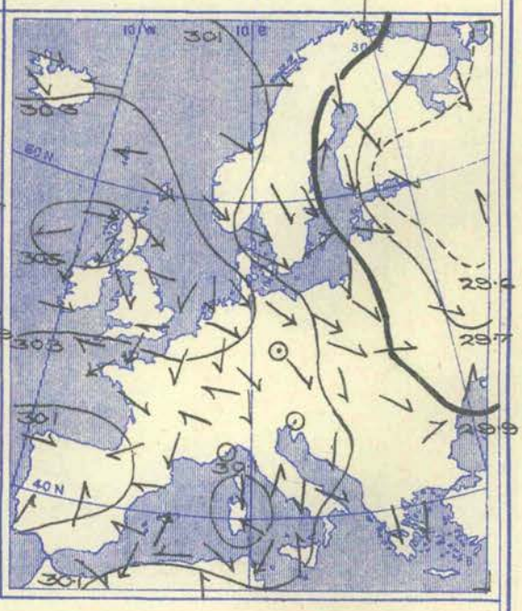


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in Norway, Portugal, and at Malta and St. Petersburg, and cloudy or overcast in Holland. Fair to bright in almost all other regions. Rain experienced later in Russia and East Prussia, but general condition remaining dry.

Temperature fallen in most regions. Readings in morning below 40° at Vardö and not much above 50° in central and south-eastern England; above 60° in the east of Scotland and over the greater part of the Continent, and 70° or above on some shores of the Mediterranean. Rising subsequently to 80° at Leith and to above 75° in several parts of these Islands. Maxima above 80° at many places in France and southern Europe; nearly 90° in places.

Wind in morning circulating anticyclonically over the United Kingdom and a wide area surrounding. North-Westerly current strong in the south of Scandinavia and that from North-East fresh or strong on the English Channel. Mainly cyclonic elsewhere, the chief movement being in the north-east of Europe. Similar conditions continuing throughout the day.

Barometer in morning ranging from above 30·5 in. in a large high pressure system extending over these Islands from the westward to below 30·0 in. in Portugal, and to below 29·7 in. in a rather large depression over Finland and its vicinity. Subsequent changes slight and no important modification occurring in the general distribution of pressure.

Thursday, 8th June, 1911.

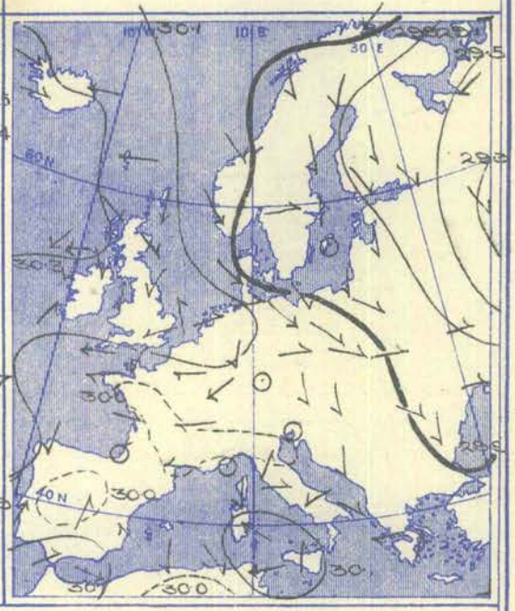
Temperature and Weather.

7 a.m.

Barometer and Wind.

7 a.m.

6 p.m.



Weather in morning fair to fine generally, but overcast in a few localities, with rain in Shetland and at some German stations. Thunderstorms later in the south-west of England, the Channel Islands, and over a large area in France and Spain, and heavy rain in places; 1·3 in. at Toulouse, 1·1 in. at Prague, and 0·8 in. at Lugano.

Temperature risen over the United Kingdom and France. Morning readings ranging from about 70° at several stations in the Mediterranean region to below 60° very generally over the northern half of the Continent, and to below 40° in the north of Scandinavia. Rising to 80° during day in various parts of England, and to nearly 90° in some French localities. Maxima below 70° in Germany and a considerable portion of Austria.

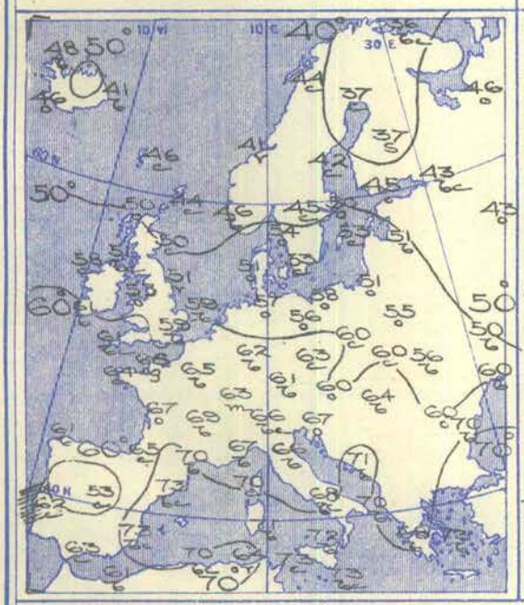
Wind in morning mainly between North and North-West over the northern half of our area and of little force; light and variable in the southern regions. No general change later in day, but force increasing over the North Sea region and in the south-east of England.

Barometer in morning above 30·4 in. in an anticyclonic system having its maximum over the north-west of these Islands and the adjacent part of the ocean; below 29·4 in. in a depression over Russia, and relatively low in shallow disturbances in the south-west of our area. A brisk decrease of pressure taking place over Scandinavia during day, and gradient increasing considerably in that region and over the North Sea. A shallow depression moving in a Northerly direction over France, and anticyclone receding westwards.

Friday, 9th June, 1911.

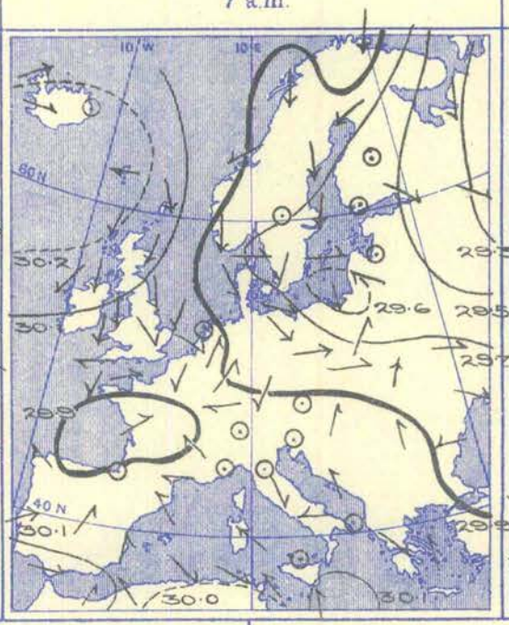
Temperature and Weather.

7 a.m.

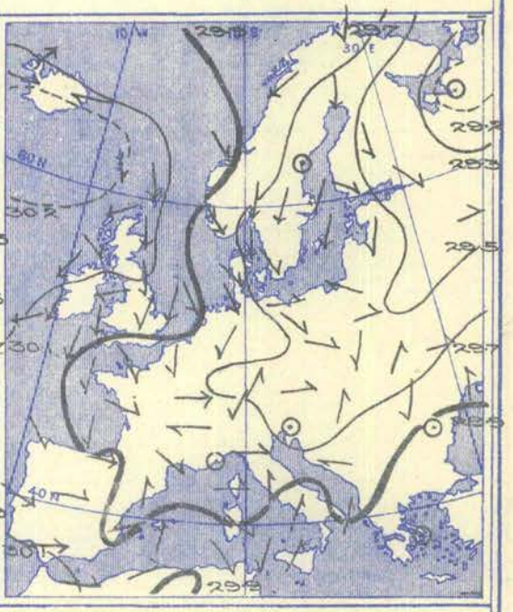


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine generally, but overcast or very cloudy in some parts of these Islands and at many stations in Scandinavia and central Europe, and rain falling at North Shields and Christiansund. Rain also prevailing at Algiers and snow at Kuopio. Thunderstorms later in several parts of France and in the extreme south-west of England, and rain in Switzerland, other parts of central Europe, and Denmark.

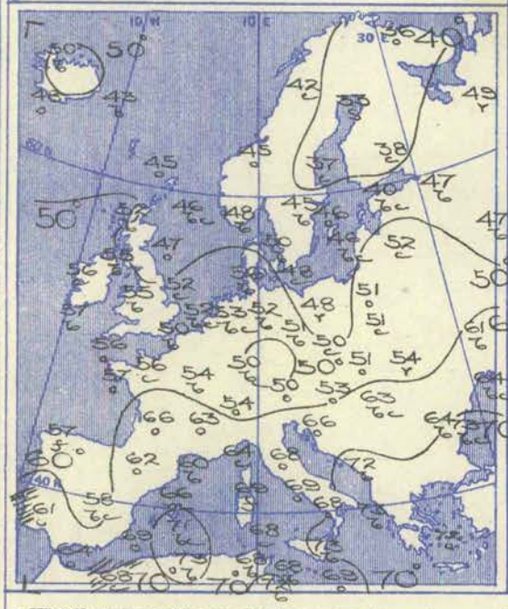
Temperature fallen in most regions. Morning readings ranging from below 40° in the extreme north and only about 50° in the north of Scotland and East Prussia to above 65° at many stations in southern Europe and to above 70° in places. Rising no higher than 51° at Wick during day and failing to reach 60° in the north and north-east of this country generally, but maxima exceeding 70° in the south of England and above 80° over a wide area in the Mediterranean region. Thermometer touching 90° at Brindisi.

Wind in morning showing partial or complete cyclonic circulations over our area as a whole. Light generally, but fresh from the North-West at some Scandinavian, Danish, and German stations. No important change later in day; increasing to a fresh breeze from East or North-East on the south-east and south coasts of England.

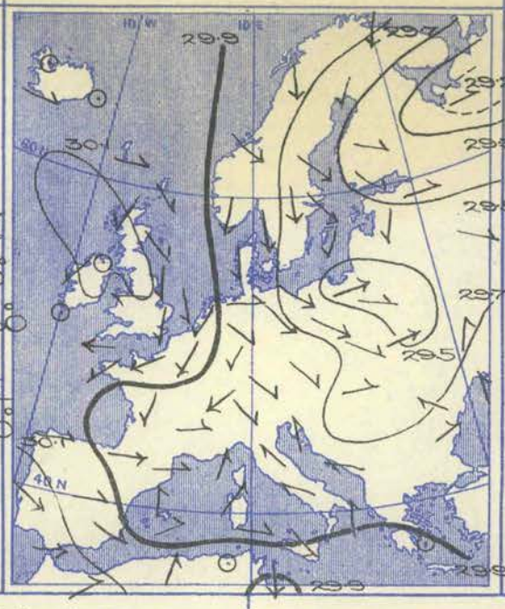
Barometer in morning above 30·2 in. between Scotland and Iceland; below 29·9 in. in a shallow depression over France, below 29·6 in. in another over Prussia, and below 29·3 in. in a large system over Russia. Little modification occurring during day in the general distribution, but pressure giving way rather decidedly over the north of France and also in the north of Iceland.

Saturday, 10th June, 1911.

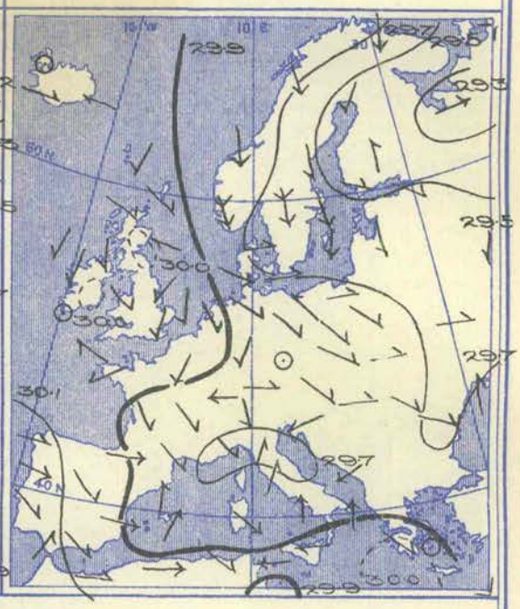
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast over a large area in the north of Europe, Scotland, and the southern half of France, with snow at Haparanda, rain at Archangel, Swinemünde, and Limoges, as well as at Lemberg. Fair to bright generally elsewhere. Considerable or heavy falls of rain later over the northern half of Italy, in Switzerland, and at some stations in the southern parts of France, as well as on the east coast of Spain. Smaller amounts in various parts of Germany, Scandinavia, Finland, and in the north-east of England.

Temperature changed little or fallen generally. Morning readings below 35° in the north of Sweden and Finland and below 50° over a large portion of northern Europe and in Scotland; about 50° in many parts of Germany. Between 65° and 70° at most stations in the Mediterranean region, and above 70° in places. Maxima during day below 60° over a large portion of this country, and not much above it in any part of Great Britain. Below 60° also over most of Germany and the north of France, but about 80° at many stations in the south of Europe, 86° at Bucharest, and 90° at Brindisi.

Wind in morning cyclonic very generally except in the north and west of the United Kingdom. Northerly current blowing a gale at Skudesnaes and a fresh to strong breeze at some other stations in Scandinavia. Some local cyclonic circulations setting in over these Islands by evening, but no general change occurring. Gale in the south-west of Norway extending to Karlstad.

Barometer in morning ranging from above 30·1 in. in the north-west of these Islands and in the extreme south-west of the Continent to below 29·5 in. in a depression over East Prussia and Poland, and to below 29·2 in. in another having its minimum not far from Archangel. Relatively low over northern Italy and the greater portion of France. Shallow minima developing over Ireland and Scotland during day; depression over Italy and France becoming more marked; that over Prussia and Poland apparently travelling away in an easterly direction.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E. 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	May 28th, 9.30 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	293·6° 67% 40°, 6·7	291·3° 74% 30°, –	288° 80% Var.					285°.8 70% 60°, – } 940	A little A.-Cu. then clear sky with little scud about 500m. Gusty wind, varying between 8 and 14 m.p.s.
2	June 8th, 10.0 a.m. to 11.45 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	295° 52% 80°, 13	292° 57% 90°, 11	288·5° 63% 120°, 11	284°, 5 47% 120°, 11					Unclouded sky. Air very clear.
3	June 10th, 10.0 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 52% 50°, 6		282° 55%						Little Fr.-Cu. Wind ~~varying~~ direction alternating between 11° and 45°, rate varying 13 m.p.s. to nil. Kite carried to 500m. in convection current.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	1	1
Area of Surface (sq. ft.)	7	5·5	7
Capacity of Balloon (cub. ft.) ..	—	—	—
Length of Wire (feet)	1,500	1,500	1,000

South Kensington, London, S.W. *June 13th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 24. TWENTY-FOURTH WEEK, SUNDAY, JUNE 11TH, TO SATURDAY, JUNE 17TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. Early in the week the weather remained fair and dry in all the more western and southern parts of the United Kingdom, but cool and showery in the north and east. On Thursday evening rain set in, in the south of Ireland and the south-west of England, and in the course of the next two days the unsettled weather extended over the entire Kingdom. Thunderstorms were experienced on Saturday over northern and central England, as well as in some parts of Ireland and Scotland. A mock sun was seen on the same day at Raunds.

Temperature was below the average in all districts excepting the English Channel, the deficit being small in Ireland S., but rather large in Scotland. The highest readings were recorded over the country generally on the 16th or 17th, but in the south of England they occurred more commonly on the 12th. In Scotland E. and W. and Ireland N. the thermometer did not reach 70°, but in most of the English districts it rose to between 72° and 75°, while in Ireland S. (at Killarney) it touched 76°. The lowest readings, which occurred as a rule on the 14th or 15th, ranged from 28° in Scotland E. and 30° in England S.W., to 36° in Ireland S., and to 46° in the English Channel. The lowest grass temperature readings were 19° at Llangammarch Wells on the 15th, 24° at Birmingham on the 15th, and 26° at Aspatria on the 14th, Burnley and Balmoral on the 15th and 16th. In many other localities the thermometer fell slightly below 32°.

Mean Temperature of the Sea. On most parts of the coast the water was warmer than during the corresponding week of last year, the difference being more than 3° on the north-east coast of England and at Scilly. The means for the week ranged from 60° at Margate, 59° at Eastbourne and 58° at several stations in the west and south-west to 51° at Wick and Aberdeen.

Rainfall was deficient over the eastern half of the United Kingdom generally, but slightly in excess of the average in England N.E. Most of the western and south-western districts experienced more than the normal amount, but in Ireland N. there was a deficiency. Heavy falls of rain and hail were reported locally with the thunderstorms of Saturday; at Waterford 1·2 in. was recorded, and at Burnley 1·6 in.

Bright Sunshine was in excess of the average in all districts. The percentage of the possible duration ranged from 58° in the English Channel and 49 in England S.W. to 40 in England N.E., Scotland W. and Ireland S.

Barometer and Wind. During the earlier half of the week the barometer was highest to the westward of our islands, and lowest in a depression which moved slowly southwards across northern Europe. The prevailing winds were therefore Northerly, and on the east coast of England they occasionally blew with considerable strength. In the latter half of the period a large depression of moderate depth extended steadily in from the Atlantic, the wind shifting at first to East or South-East very generally, but afterwards veering to South and South-West in the more southern districts.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 196.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate
	Rainfall ...	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 2 weeks from June 4th, 1911.	Warmth ...	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 0	1 * 0
	Rainfall ...	0 * 2	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	1 * 1	1 * 0
	Sunshine ...	1 * 0	2 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	1 * 0	2 * 0

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9738 450 Wy. & S., Ltd. 6–11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FOURTH WEEK—June 11th to June 17th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	73	35	57·4	42·9	49·7	− 2·5	54	− 19	0	− 1	3	1	0·21	−0·41	44	+ 6	36	+ 5
Eastern																		
1. SCOTLAND, EAST	69	28	58·9	40·3	49·0	− 4·5	56	− 25	5	+ 5	3	− 1	0·40	−0·10	51	+ 10	42	+ 8
2. ENGLAND, N.E.	73	32	61·0	43·9	51·9	− 2·5	69	− 18	0	0	4	+ 2	0·51	+0·10	47	+ 4	40	+ 4
3. ENGLAND, EAST	75	34	63·8	45·5	54·0	− 2·1	84	− 15	0	0	3	0	0·44	−0·09	52	+ 7	45	+ 6
4. MIDLAND COUNTIES	74	32	65·1	44·0	53·8	− 2·4	83	− 16	0	0	2	− 1	0·36	−0·10	47	+ 5	41	+ 4
5. ENGLAND, S.E.	72	32	65·2	46·3	55·1	− 2·1	92	− 14	0	0	2	− 1	0·37	−0·10	55	+ 8	48	+ 7
Western																		
6. SCOTLAND, WEST	69	31	62·7	42·4	51·9	− 3·1	69	− 22	0	0	2	− 1	0·68	+0·04	48	+ 2	40	+ 2
7. ENGLAND, N.W.	70	34	63·4	45·1	53·6	− 2·1	81	− 15	0	0	3	0	0·63	+0·16	59	+ 12	50	+11
8. ENGLAND, S.W.	73	30	64·0	46·7	54·7	− 1·8	89	− 13	0	0	3	0	0·59	+0·05	55	+ 7	49	+ 6
9 IRELAND, NORTH	69	31	61·0	45·8	52·9	− 2·0	76	− 13	0	0	2	− 2	0·49	−0·11	51	+ 10	43	+ 9
10. IRELAND, SOUTH	76	36	64·7	48·2	55·8	− 0·5	97	− 3	0	0	3	0	0·90	+0·34	46	+ 1	40	+ 1
11. ENGLISH CHANNEL	73	46	64·5	51·5	57·6	+ 0·2	109	+ 2	0	0	3	− 1	0·71	+0·30	65	+ 9	58	+ 8

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 2 Weeks, June 4th to June 17th, 1911.

0. SCOTLAND, NORTH	73	35	*	*	*	*	137	− 3	0	− 2	4	− 3	0·32	−0·86	88	+10	36	+ 4
Eastern																		
1. SCOTLAND, EAST	81	28	*	*	*	*	161	+ 6	5	+ 4	4	− 2	0·45	−0·50	122	+38	50	+16
2. ENGLAND, N.E.	84	32	*	*	*	*	181	+ 14	0	0	5	0	0·58	−0·27	118	+32	50	+13
3. ENGLAND, EAST	83	34	*	*	*	*	206	+ 13	0	0	4	− 2	0·45	−0·61	130	+37	57	+16
4. MIDLAND COUNTIES	83	32	*	*	*	*	210	+ 16	0	0	3	− 2	0·40	−0·54	119	+33	52	+14
5. ENGLAND, S.E.	83	32	*	*	*	*	226	+ 18	0	0	2	− 4	0·37	−0·60	141	+46	62	+20
Western																		
6. SCOTLAND, WEST	80	31	*	*	*	*	178	+ 3	0	0	3	− 3	0·69	−0·53	134	+42	57	+18
7. ENGLAND, N.W.	82	34	*	*	*	*	194	+ 9	0	0	3	− 3	0·63	−0·28	144	+49	62	+21
8. ENGLAND, S.W.	82	30	*	*	*	*	228	+ 29	0	0	4	− 2	0·60	−0·44	141	+44	62	+19
9. IRELAND, NORTH	79	31	*	*	*	*	175	+ 2	0	0	2	− 5	0·49	−0·67	118	+35	50	+15
10. IRELAND, SOUTH	82	36	*	*	*	*	222	+ 27	0	0	4	− 2	0·91	−0·20	121	+30	53	+13
11. ENGLISH CHANNEL	79	46	*	*	*	*	245	+ 36	0	0	4	− 3	1·29	+0·44	143	+31	64	+14

THE YEAR.—Aggregates, &c., for the Period of 24 Weeks, January 1st to June 17th, 1911.

0. SCOTLAND, NORTH	83	14	*	*	*	*	682	+ 94	415	−142	95	−16	21·45	−0·57	628	+ 56	31	+ 3
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	750	+ 64	492	−128	86	− 4	9·98	−2·23	720	+ 68	35	+ 3
2. ENGLAND, N.E.	84	19	*	*	*	*	866	+147	371	−104	74	− 8	6·80	−2·53	693	+ 5	34	0
3. ENGLAND, EAST	83	16	*	*	*	*	981	+ 97	409	−112	78	− 3	8·27	−1·11	783	+ 55	38	+ 3
4. MIDLAND COUNTIES	83	14	*	*	*	*	1001	+ 88	415	−118	63	−16	6·58	−4·07	665	+ 13	32	+ 1
5. ENGLAND, S.E.	83	16	*	*	*	*	1013	+ 38	361	− 20	66	−11	8·40	−2·18	809	+ 83	40	+ 4
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	913	+146	347	− 78	80	−15	17·02	−2·02	741	+ 76	36	+ 4
7. ENGLAND, N.W.	83	17	*	*	*	*	939	+130	314	− 72	70	−17	11·02	− 2·18	770	+104	38	+ 5
8. ENGLAND, S.W.	82	13	*	*	*	*	1005	+ 41	297	− 4	73	−13	12·06	−3·06	807	+ 74	40	+ 4
9. IRELAND, NORTH	79	13	*	*	*	*	905	+ 72	302	− 43	77	−25	10·99	−4·13	746	+102	36	+ 5
10. IRELAND, SOUTH	82	18	*	*	*	*	1118	+104	295	+ 36	88	− 4	12·80	−3·83	761	+ 48	37	+ 2
11. ENGLISH CHANNEL	79	28	*	*	*	*	1175	+ 47	135	+ 26	80	−14	10·13	−2·64	891	+ 16	44	+ 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	56	17th	40	15th	52·9	41·9	47·0	—	35	0	5	0·25	—	59·6	—	46	—	Baltasound.
	a Lerwick	54	16th, 17th	41	13th, 14th	52·1	43·1	47·3	− 1·4	37	0	4	0·12	—	44·1	+ 7·7	35	+ 6	Deerness.
	a Stornoway	62	16th	40	14th	55·6	45·3	50·1	− 1·4	57	0	4	0·18	− 0·35	43·5	+ 0·3	35	0	Stornoway.
	a Castlebay, Barra Isd.	60	16th	44	14th	57·0	47·9	52·1	− 2·3	71	0	3	0·52	—	56·5	—	46	—	Castlebay.
	a Wick	56	11th	35	15th	52·3	44·1	47·9	− 3·6	41	0	4	0·42	− 0·01	*	*	*	*	*
b, Mainland.	p Strathpeffer	67	16th	37	14th	60·5	42·6	50·9	− 2·4	62	0	2	0·29	− 0·14	48·9	+11·4	40	+ 9	Strathpeffer.
	p Glencarron .. S	67	16th	35	14th	59·0	42·9	50·4	− 1·6	59	0	2	0·20	− 0·74	*	*	*	*	*
	p Fort Augustus S	63	16th	35	14th	58·5	40·7	49·0	− 4·1	54	4	4	0·12	− 0·34	40·7	+ 9·3	33	+ 8	Fort Augustus.
	p Fort William S	73	16th	38	14th	64·1	41·4	52·0	− 2·3	73	2	2	0·14	− 0·70	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	69	16th	40	11, 12, 16th	58·4	41·1	49·2	− 4·5	54	3	4	0·15	− 0·33	53·2	—	43	—	Gordon Castle.
	a Nairn	65	16th	34	15th	58·3	40·7	48·9	− 4·7	54	4	4	0·24	− 0·14	58·5	—	48	—	Nairn.
	a Aberdeen	62	16th	39	16th	56·9	42·6	49·3	− 3·4	51	0	4	0·43	+ 0·01	47·9	+ 4.4	39	+ 4	Aberdeen.
	a Balmoral .. S	65	16th	28	16th	56·3	33·3	44·0	− 7·5	51	24	4	0·20	− 0·28	46·2	—	38	—	Crathes S.
	p Crieff .. .. S	68	16th	38	12th, 15th	62·9	40·5	50·9	− 4·3	69	4	3	0·66	+ 0·02	50·2	—	42	—	Balruddery.
	a Leith	65	16th	38	15th	60·1	44·3	51·7	− 3·0	68	0	3	0·29	− 0·11	*	*	*	*	*
	p West Linton .. S	65	16th	32	15th	59·7	37·2	47·7	− 4·5	60	13	3	0·28	—	—	—	—	—	West Linton.
	p Marchmont .. S	65	16th	38	15th	58·4	42·6	50·0	− 2·6	56	0	2	0·93	+ 0·42	53·3	+10·4	44	+ 9	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	66	14th	35	16th	59·0	42·3	50·1	− 3·4	57	0	4	1·10	+ 0·66	49·9	—	42	—	Cockle Park.
	a Shields	62	12th	43	16th	58·3	45·0	51·2	− 2·2	64	0	4	0·68	+ 0·22	37·7	+ 4.4	33	+ 4	Newcastle.
	p Durham	66	12th	34	15th	60·4	40·2	49·6	− 5·1	61	5	4	0·38	− 0·04	40·1	+ 0·3	34	0	Durham.
	p Rounton .. M	67	17th	32	15th	60·7	41·0	50·2	− 3·3	62	3	4	0·45	0·00	*	*	*	*	*
	p Scarborough .. M	66	12th	45	15, 16, 17th	59·0	46·1	52·1	− 2·5	71	0	5	0·75	+ 0·33	46·2	—	39	—	Scarborough.
	p York	68	17th	40	13th	62·6	44·7	53·0	− 3·5	77	0	4	0·37	− 0·11	42·7	+ 1·9	37	+ 2	York.
b, South.	a Spurn Head	68	17th	45	15th	59·9	48·4	53·8	− 0·9	83	0	4	0·29	− 0·05	*	*	*	*	*
	a Lincoln	73	17th	37	15th	63·5	43·9	53·0	− 4·5	77	0	3	0·41	− 0·04	60·0	—	52	—	Skegness.
	a Fulbeck	72	17th	37	15th	66·0	43·9	54·2	− 2·5	85	0	4	0·17	− 0·27	45·2	—	39	—	Rauceby.
															58·1	—	51	—	Lowestoft.
3. ENGLAND, E. — a, North.	p Cromer	72	17th	43	16th	60·9	46·5	53·2	− 2·2	78	0	4	0·63	—	65·5	—	57	—	Cromer.
	p Hillington .. M	73	17th	39	11th, 16th	66·3	44·7	54·8	− 1·7	90	0	2	0·42	− 0·09	44·5	− 1·5	38	− 1	Hillington.
	a Yarmouth	67	17th	42	14th	59·9	47·0	53·0	− 2·5	77	0	3	0·44	+ 0·04	53·1	—	46	—	Yarmouth.
	a Norwich	75	17th	39	15th, 16th	63·3	44·7	53·4	− 2·6	80	0	4	0·55	—	*	*	*	*	*
	p Geldeston	73	17th	37	16th	63·4	43·0	52·5	− 3·4	74	0	3	0·21	− 0·22	48·8	− 0·2	42	0	Geldeston.
	p Cambridge	72	17th	38	11th, 15th	65·9	44·6	54·5	− 3·1	88	0	4	0·51	+ 0·04	55·8	+ 9·2	49	+ 8	Cambridge.
b, South.	a Felixstowe	68	17th	40	15th	61·7	47·0	53·8	− 2·7	83	0	3	0·18	—	55·9	—	49	—	Felixstowe.
	a Clacton-on-Sea ..	69	17th	39	15th	62·3	46·9	54·1	− 2·2	85	0	1	0·24	—	44·5	—	39	—	Clacton.
	a Rothamsted ..	69	12th, 16th	34	15th	65·3	43·6	53·7	− 2·7	82	0	4	0·29	− 0·19	51·4	+ 6.0	45	+ 5	Rothamsted.
	a Shoeburyness ..	71	17th	40	14th	63·6	47·0	54·7	− 3·9	89	0	3	0·38	− 0·01	48·9	—	43	—	Southend.
	p Tottenham	71	17th	42	15th	66·9	48·1	56·9	− 0·8	104	0	3	0·71	—	54·0	—	47	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	66	17th	37	15th	61·1	42·6	51·2	− 3·2	64	0	4	0·30	− 0·24	45·0	—	39	—	Harrogate.
	a Bawtry	74	17th	35	15th	64·3	42·6	52·7	− 4·1	75	0	2	0·18	− 0·23	50·0	+11·6	43	+10	Worksop.
	p Buxton .. M	67	17th	32	15th	61·4	46·3	50·1	− 2·9	64	5	2	0·25	− 0·47	51·6	—	45	—	Buxton.
	a Nottingham ..	70	17th	37	15th	65·1	44·6	54·1	− 2·4	85	0	3	0·30	− 0·14	53·6	—	46	—	Nottingham.
	p Birmingham, Edgbsn	68	12th	42	14th	64·7	46·8	55·1	− 1·3	92	0	2	0·31	− 0·20	34·1	—	30	—	Birmingham.
	a Raunds .. M	74	17th	32	15th	67·8	43·0	54·5	− 2·4	88	0	2	0·03	—	*	*	*	*	*
	a Oxford	69	12th	39	14th	66·0	46·1	55·4	− 2·0	94	0	2	0·21	− 0·28	52·8	+ 7·5	46	+ 7	Oxford.
b, West.	a Cheadle .. M	69	17th	38	14th, 15th	62·7	43·2	52·3	− 2·7	72	0	2	0·83	+ 0·25	48·3	—	41	—	Sheffield.
	p Shrewsbury	70	17th	33	15th	66·1	42·6	53·5	− 3·4	81	0	2	0·50	—	*	*	*	*	*
	a Hereford .. M	70	12th	36	15th	66·5	43·9	54·4	− 2·9	87	0	2	0·65	+ 0·15	*	*	*	*	*
	a Cirencester	71	12th	36	14th	65·3	43·4	53·6	− 2·3	81	0	2	0·36	− 0·17	46·3	+ 0·1	41	0	Cirencester.
	a Bath	70	12th	40	14th	66·4	45·7	55·3	− 2·1	93	0	3	0·30	− 0·23	48·4	—	43	—	Bath.
															53·5	—	47	—	Ramsgate.
5. ENGLAND, S.E. ..	p Kew	72	16th	42	11, 14, 15th	66·9	47·5	56·5	− 1·0	102	0	2	0·56	+ 0·08	49·1	+ 3·5	43	+ 3	Kew.
	a Marlborough ..	70	12th	32	14th	66·4	42·0	53·4	− 2·1	80	0	3	0·32	− 0·21	48·0	+ 5·4	42	+ 5	Marlborough.
	a Margate	70	17th	43	11th	65·1	49·7	56·9	0·0	104	0	2	0·47	+ 0·07	44·0	+ 0·4	39	0	Margate.
	a Wisley, Surrey ..	71	12th	36	15th	67·4	44·1	54·9	− 3·4	90	0	2	0·52	—	55·5	—	49	—	Wisley.
	a Swarraton .. M	69	12th	35	11th	65·6	42·4	53·2	− 2·9	78	0	2	0·30	− 0·23	65·4	—	58	—	Worthing.
	a Tunbridge Wells M	70	16th	38	14th, 15th	65·5	44·4	54·2	− 2·4	85	0	2	0·25	− 0·25	45·6	− 1·3	40	− 1	Tunbridge Wells.
	a Dungeness	64	12th, 16th	38	15th	61·9	46·3	53·6	− 3·1	81	0	2	0·22	− 0·11	47·4	—	42	—	Littlestone.
	p Hastings	65	12th, 16th	42	14th	62·5	48·2	54·9	− 2·2	90	0	2	0·40	0·00	46·0	− 7·6	41	− 7	Hastings.
	p Southampton ..	70	12th	43	11th, 14th	66·1	47·8	56·3	− 2·8	100	0	3	0·22	− 0·23	63·2	+13·7	55	+12	Southampton.
	a Ventnor	67	12th	45	14th	64·8	50·7	57·3	− 0·5	107	0	3	0·40	− 0·03	70·0	+23·5	62	+21	Ventnor.
															60·2	+ 8·8	53	+ 8	Eastbourne.
LONDON	a Westminster ..	70	16th	42	14th	66·7	49·3	57·4	− 0·8	108	0	2	0·56	+ 0·08	50·8	+11·6	45	+ 10	Westminster.
	a Greenwich	75	16th	41	11th	69·0	46·9	57·2	− 1·5	106	0	4	0·66	+ 0·20	47·7	+ 9·1	42	+ 2	Greenwich.
6. a, SCOTLAND. W. ..	a Poltalloch .. S	66	16th	35	14th	62·3	40·7	50·8	− 4·6	67	4	2	0·43	− 0·25	*	*	*	*	*
	p Glasgow	65	11, 12, 16th	41	14th	62·2	45·2	53·1	− 1·6	78	0	2	0·93	+ 0·35	35·7	− 2·3	30	− 2	Glasgow.
	p Rothesay .. S	69	15th	38	14th	65·4	44·9	54·4	− 0·6	87	0	3	0·92	+ 0·24	*	*	*	*	*
	a Kilmarnock	67	16th	31	14th	63·7	40·1	51·1	− 3·8	72	5	2	0·68	—	50·0	—	42	—	Kilmarnock.
	a Colmonell .. S	65	12th, 17th	33	14th	62·5	39·9	50·4	− 4·5	68	6	2	0·37	− 0·19	*	*	*	*	*
	p Dumfries .. S	68	12th	35	14th	64·1	40·9	51·7	− 4·6	73	3	2	1·18	+ 0·67	55·8	—	47	—	Dumfries.
	p Cally, Gatehouse S	69	12th	35	14th	64·0	41·6	52·0	− 2·8	72	1	2	0·48 ?	− 0·17	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	62	15th	39	15th	57·7	46·1	51·5	− 3·2	67	0	2	0·46	− 0·13	60·0	+ 8·6	51	+ 7	Douglas.
															62·7	—	54	—	Hoylake.
7. a, ENGLAND, N.W. ..	p Aspatria	68	16th	36	14th	64·4	41·8	52·3	− 2·2	73	1	2	0·40	− 0·15	60·1	—	51	—	Aspatria.
	p Newton Rigg ..	67	15th	34	14th, 15th	64·0	38·8	50·5	− 3·6	73	9	2	0·64	+ 0·17	53·0	+ 4·5	45	+ 4	Newton Rigg.
	p Stonyhurst	69	17th	38	15th	62·5	44·5	52·9	− 2·5	76	0	2	1·00	+ 0·34	49·1	+ 3·5	42	+ 3	Stonyhurst.
	p Blackpool .. M	66	17th	38	14th	62·1	43·8	52·3	− 3·6	72	0	2	0·66	+ 0·14	65·8	+19·4	56	+17	Blackpool.
	p M'nch'ster, Prestwich	69	11th	38	15th	64·6	43·7	53·4	− 2·3	80	0	2	0·39	− 0·22	44·8	+ 5·7	38	+ 5	Prestwich.
	a Liverpool (Bidston)	69	17th	45	14th	62·9	48·7	55·3	− 0·5	93	0	3	0·53	+ 0·02	64·1	—	55	—	Liverpool.
	a Hawarden Bridge ..	70	17th	39	15th	63·5	46·3	54·3	− 2·6	86	0	2	0·77	+ 0·33	55·8	+ 7·0	48	+ 6	Southport.
															76·4	—	66	—	Rhyl.
b, NORTH WALES ..	p Llandudno .. M	69	11th, 17th	43	15th	65·3	49·3	56·7	+ 0·1	103	0	4	0·64	+ 0·19	69·1	+21·5	60	+19	Llandudno.
	a Holyhead	63	15th	45	15th	60·6	49·0	54·4	− 0·7	87	0	2	0·41	− 0·07	57·0	—	50	—	Aberdovey.
	p Bettws-y-Coed ..	70	15th	36	15th	64·0	44·9	53·8	− 1·9	83	0	4	0·88	—	55·5	—	48	—	Bettws-y-Coed.
															56·8	—	49	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	67	12th	30	15th	63·4	38·7	50·2	− 4·9	71	9	3	1·28	—	39·8	—	35	—	Llangammarch Wells.
	a Pembroke	65	12th	43	15th	60·9	47·1	53·5	− 1·7	81	0	3	0·50	+ 0·05	60·1	+ 7·4	53	+ 7	Pembroke.
	p Cardiff	71	12th	42	14th, 15th	65·4	46·6	55·4	− 2·5	94	0	3	0·49	− 0·08	58·4	—	51	—	Cardiff.
															57·4	+ 4·3	50	+ 4	Tenby.
b, ENGLAND, S.W. ..	a Clifton	71	12th, 13th	45	14th	68·7	49·7	58·5	+ 0·6	116	0	3	0·21	− 0·32	59·4	—	52	—	Clifton.
	a Shaftesbury .. M	69	12th	41	14th	63·9	45·8	54·2	− 1·2	85	0	3	0·50	− 0·04	*	*	*	*	*
	a Arlington	68	12th	40	12th, 15th	64·0	44·4	53·5	− 1·1	81	0	3	0·50	− 0·20	31·0	+ 9·4	54	+ 8	Newquay.
	a Cullompton .. M	73	12th	37	15th	66·9	43·9	54·6	− 2·6	88	0	3	0·54	+ 0·07	54·2	+ 7·9	48	+ 7	Cullompton.
	a Portland Bill ..	66	13th	49	14th	61·0	51·4	55·9	− 0·3	97	0	3	0·43	—	66·0	—	59	—	Weymouth.
	p Plymouth	70	12th	43	15th	63·7	48·1	55·4	− 2·6	94	0	3	0·48	− 0·03	56·0	+ 6·1	50	+ 5	Plymouth.
	p Falmouth	65	12th	48	14th	62·4	50·8	56·2	− 0·5	99	0	3	1·01	+ 0·46	59·7	+ 6·3	53	+ 6	Falmouth.
															62·3	—	55	—	Salcombe.
															63·7	+10·1	56	+ 9	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	61	17th	46	13th	57·3	48·7	52·7	− 0·9	75	0	2	0·27	− 0·21	*	*	*	*	*
	a Blacksod Point ..	63	14, 15, 17th	44	15th	60·9	48·6	54·3	− 0·5	86	0	3	0·28	− 0·33	*	*	*	*	*
	p Markree Castle ..	66	15th	31	14th	62·6	42·7	52·0	− 2·3	70	0	3	0·62	− 0·03	48·2	+ 8·4	41	+ 7	Markree Castle.
	a Birr Castle	69	17th	37	14th	64·9	43·6	53·5	− 2·2	81	0	1	0·84	+ 0·32	45·6	+ 6·4	39	+ 6	Birr Castle.
b, East.	p Armagh	66	17th	36	14th	62·3	42·5	51·7	− 3·0	68	0	3	0·41	− 0·15	53·4	+13·2	45	+11	Armagh.
	a Donaghadee	62	15th	43	12th	58·1	48·6	53·0	− 1·7	77	0	2	0·51	− 0·02	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City	68	17th	43	15th	62·3	49·7	55·6	− 1·8	95	0	3	0·71	+ 0·28	41·7	− 4·1	36	− 4	Phœnix Park.
	a Kilkenny	66	11th, 12th	36	15th	64·0	45·4	54·1	− 1·9	85	0	3	0·40	− 0·14	*	*	*	*	*
	a Waterford	69	12th	38	15th	64·7	48·1	55·8	− 0·9	97	0	2	1·48	+ 0·86	*	*	*	*	*
	a Birr Castle	69	17th	37	14th	64·9	43·6	53·5	− 2·2	81	0	1	0·84	+ 0·32	45·6	+ 6·4	39	+ 6	Birr Castle.
b, West.	a Foynes	66	16th	43	15th	63·4	47·7	55·0	− 1·5	91	0	3	0·97	+ 0·42	*	*	*	*	*
	a Cahir .. .. M	69	12th	40	15th	66·1	47·1	55·9	0·0	97	0	3	0·26	—	*	*	*	*	*
	a Killarney	76	11th	44	13th, 14th	70·0	48·7	58·6	+ 2·8	116	0	3	1·98	+ 1·31	*	*	*	*	*
	a Valencia	66	16th, 17th	46	14th	63·6	50·0	56·3	+ 0·1	100	0	3	0·75	+ 0·02	52·6	+ 7·4	46	+ 6	Valencia.
	a Roche's Point ..	66	12th	48	13th	62·9	53·1	57·7	+ 1·5	110	0	3	0·70	+ 0·05	45·3	—	40	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	65	12th	46	11th	61·7	50·4	55·7	− 1·0	96	0	3	1·56	+ 1·17	56·8	0·0	50	0	Scilly.
	a Jersey, St. Aubins ..	73	12th	46	15th	67·0	53·0	59·5	+ 1·3	123	0	3	0·19	− 0·28	70·5	+14·3	63	+13	St. Heliers.
	a Guernsey	68	15th, 17th	47	15th	64·7	51·2	57·5	0·0	109	0	3	0·38	− 0·12	67·5	+ 9·4	60	+ 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 63·9 hrs. (+11·9 hrs.), 57 % (+11 %); *Bournemouth*, 68·6 hrs., 61 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	51·8	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	52·0
	Crathes	6	25	55·1	53·3
	Balmoral	5	26	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	31	56·0	—
2.	Cockle Park	0	32	56·0	55·1
	Durham	1	27	—	—
	York	—	—	57·0	54·7
	Hull	0	33	55·9	52·0
	Lincoln	—	—	57·6	54·8
	Rauceby	0	33	61·1	56·3
3.	Norwich	0	33	—	—
	Yarmouth	—	—	63·1	59·0
	Lowestoft	0	35	60 3	56·1
	Cambridge	0	31	60·1	57·3
	Clacton-on-Sea ..	1	29	57·9	56·2
	Southend	0	33	61·9	—
	Tottenham	0	37	—	59·3

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	1	28	55·1	54·5
	Huddersfield ..	0	32	59·4	53·3
	Buxton	?2	29	54·6	51·4
	Sheffield	0	31	55·9	52·4
	Nottingham.. ..	0	32	60·6	56·1
	Birmingham.. ..	1	24	54·9	51·8
	Oxford	0	31	—	—
	Hereford	1	30	—	—
	Cirencester	1	30	59·1	55·4
	Bath	—	—	—	—
5.	Margate	0	?39	58·5	56·1
	Greenwich	2	27	—	—
	Westminster ..	0	39	—	—
	Kew	2	29	59·2	55·7
	Canterbury	0	34	60·4	58·2
	Tunbridge Wells ..	2	30	60·9	—
	Wisley	3	27	61·3	57·6
	Worthing	0	38	62·2	57·8
	Portsmouth	0	37	63·4	59·0
6.	Glasgow	1	29	—	—
	Rothesay	—	—	—	54·0
	Colmonell	2	27	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	2	30	61·0	58·0
	Douglas	0	35	—	—
7.	Aspatria	2	26	58·1	53·4
	Newton Rigg ..	3	28	58·1	53·7
	Burnley	3	26	56·4	53·1
	Southport	1	30	62·0	58·5
	Manchester City ..	0	34	59·0	57·2
	Bettws-y-Coed ..	0	34	58·0	54·0
8.	Llangammarch Wells	5	19	56·0	52·5
	Cardiff	0	35	61·7	57·1
	Clifton	0	39	—	—
	Plymouth	0	34	63·8	—
9.	Armagh	3	28	58·0	55·3
	Markree	3	23	59·1	54·5
10.	Dublin, Trin. Coll. ..	0	32	60·4	56·7
11.	Guernsey, Brooklyn	0	32	62·1	58·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	49	49·3
	Kirkwall	54	53	53·2
	Wick	51	50	50·8
SCOTLAND E.	Cromarty	57	54	55·8
	Pennan Bay	51	49	50·7
	Aberdeen, Cove Bay ..	51	51	51·0
ENGLAND, N.E.	Burnmouth, Berwick ..	54	53	53·3
	Scarborough	57	52	53·9
ENGLAND, E.	Shipwash Lightship ..	58	54	56·7
	Margate‡	61	60	60·3
ENGLAND, S.E.	Eastbourne‡	61	59	59·4

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	59	52	56·3
	Ballantrae	55	50	53·3
ENGLAND, N.W.	Port Erin	56	51	52·6
ENGLAND, S.W.	Newquay	60	55	57·9
	Scilly	60	57	58·4
	Plymouth‡	58	57	57·5
	Salcombe	58	54	55·2
IRELAND, N.W.	Sheephaven	57	57	57·0
	Teelin	60	57	58·2
IRELAND, S.W.	Cleggan	57	54	54·9
	Seafield	62	53	57.8
IRELAND, E. ..	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

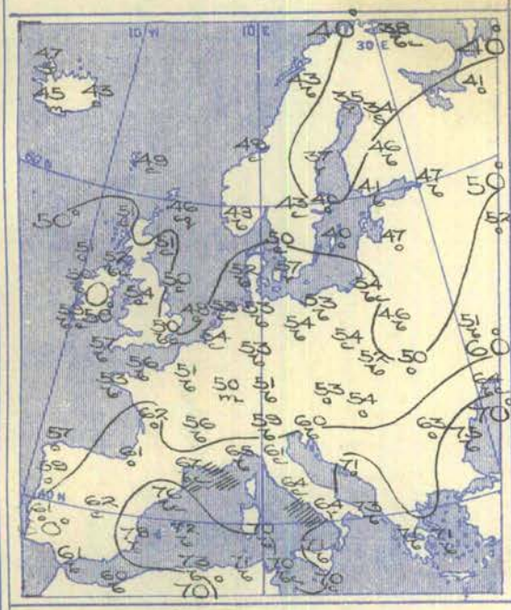
No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	June 14th, 10.0 a.m. to 10.49 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	286·5° 70% 340°, 6	285·5° 70% 340°, 9	282·5° 80% 340°, 9	278·5° 90% 340°, 10				277° 95% 340°, 11 } 1,200	Overcast. Clouds not reached.
2	June 16th, 9.50 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	290° 70% 110°, 6	289° 70% 110°, 8	287·5° 70% 135°, 10					286·5° 70% 150°, 9 } 700	Wind failed above.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

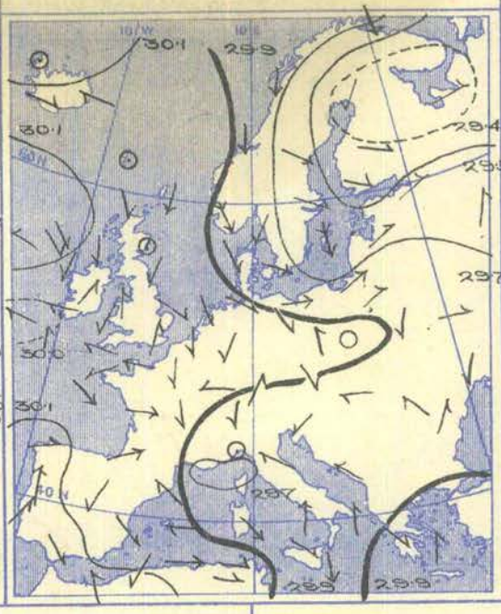
No. of Ascent.	1	2
No. of Kites	1	1
Area of Surface (sq. ft.)	7	7
Capacity of Balloon (cub. ft.) ..	—	—
Length of Wire (feet)	1,700	900

Sunday, 11th June, 1911.

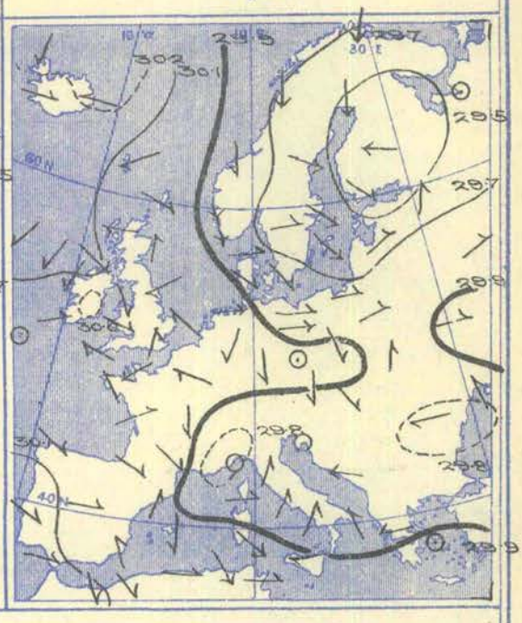
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over the major portion of our area, but cloudy or overcast in some localities, with showers at Spurn Head, and rain at some stations in Scandinavia and Italy. Large quantities of rain later over Italy, more than 1·0 in. in some places, and 2·5 in. at Leghorn; smaller amounts in several other regions on the Continent, and some very slight showers in the east and north of these Islands.

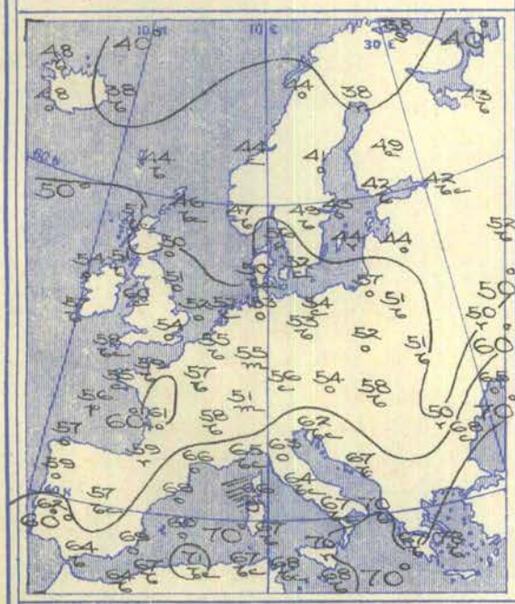
Temperature showing no general change; risen in Scotland, fallen in France. Morning readings ranging from above 70° on some shores of the Mediterranean to below 40° in a large portion of Sweden. Readings below 60° over nearly the whole of the mainland of the Continent and in these Islands. Remaining below 60° all day in the north and east of the United Kingdom, and low for the time of year over the central countries, but rising to above 75° at various stations in the south of Europe and to 80° or higher locally.

Wind in morning showing cyclonic movements both in the north and south of Europe; Northerly current strong in Scandinavia, and blowing a gale at Skudesnaes. A fresh or strong North-Westerly wind prevailing at Malaga and Cagliari, and a fresh breeze from the Southward at Naples. Light and rather variable airs general over these Islands and central Europe. No important change occurring during day. Gale continuing in the south-west of Norway.

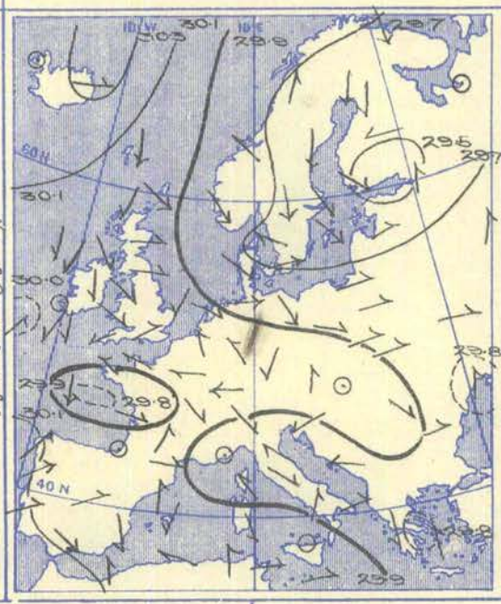
Barometer in morning above 30·2 in. between Portugal and Madeira, and above 30·1 in. off the north-west of this country and relatively high thence to central Europe and the Black Sea below 29·8 in. in a large depression of little intensity over Italy and the adjacent regions, and below 29·4 in. in another system covering much of the north-east of the Continent. No material change taking place later in day in the general distribution; some very shallow local minima forming over these Islands.

Monday, 12th June, 1911.

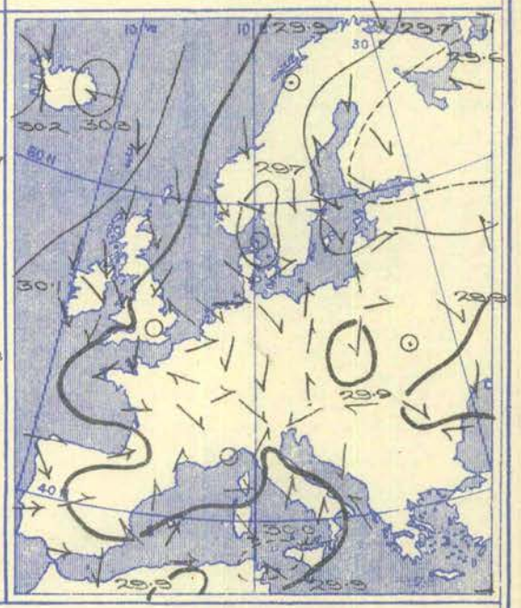
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast over the greater portion of our area, with showers at Castlebay and Spurn Head, and rain at a few places scattered over a wide area on the Continent. Heavy rain later in France, and considerable falls in Italy, the Netherlands, and Scandinavia. Thunderstorms at Nantes and Lorient. Slight rain in the east of Great Britain.

Temperature low for the time of year over this country and most of the Continent. Morning readings ranging from below 40° in the north of Scandinavia, and not much above 50° over the major portion of the Continent and in the United Kingdom to about 70° on some shores of the Mediterranean. Maxima during day lower than 65° at many of our own stations and also in Germany, but above 75° in southern Europe generally, and about 80° in places. Thermometer touching 90° at Tunis.

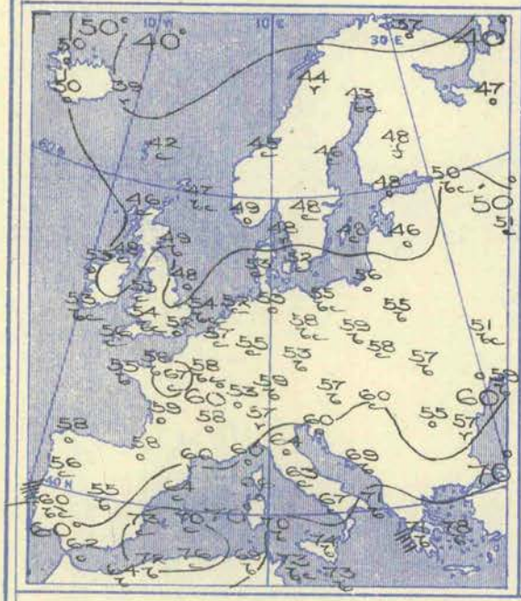
Wind in morning showing an extensive cyclonic movement over the northern regions of Europe, and a smaller one over the Bay of Biscay. Northerly to North-Westerly current strong in various parts of Scandinavia, but little force generally. A high wind from the North-West prevailing at Malaga. No change of a general character later in day, but force decreasing in most localities.

Barometer in morning above 30·2 in. over the Icelandic region, and relatively high over these Islands and central Europe. Below 29·8 in. in a depression centred over the Bay of Biscay, and below 29·5 in. in another over the Gulf of Finland and its vicinity. General situation undergoing little change during day, but another minimum developing over the Skager Rack, and that over the Bay of Biscay moving eastward to France. Pressure changing very little over the United Kingdom.

Tuesday, 13th June, 1911.

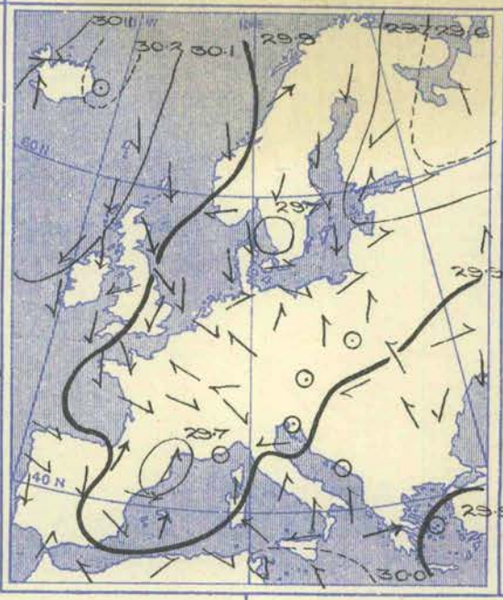
Temperature and Weather.

7 a.m.

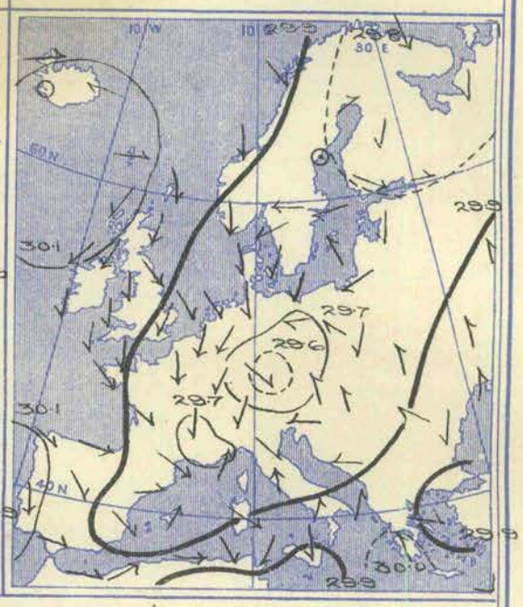


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning showery or rainy at some stations in the north-east and south-east of England, and in places on the eastern and southern shores of the North Sea, as well as in central France, northern Italy, and at Bucharest and Bodö. Generally fair to fine elsewhere, but overcast in a few localities. Very heavy rain later in France, the north of Italy, and at Trieste, with thunderstorms in places; more than 2·0 in. at Nice, Lugano, and Trieste.

Temperature showing no very decided change; fallen at our own stations and in France. Readings in morning 78° at Athens, 76° at Algiers, and above 70° at some other places in the far south; below 60° over our area generally, and below 50° over a large portion of the United Kingdom and northern Europe. Rising to 69° at Weymouth during day, but remaining below 60° in many parts of these Islands and the Netherlands, and also at Turin. Rising to about 70° in Austria-Hungary, to above 80° in some Mediterranean localities, and to 93° at Tunis. Frost at night on the ground in various parts of England.

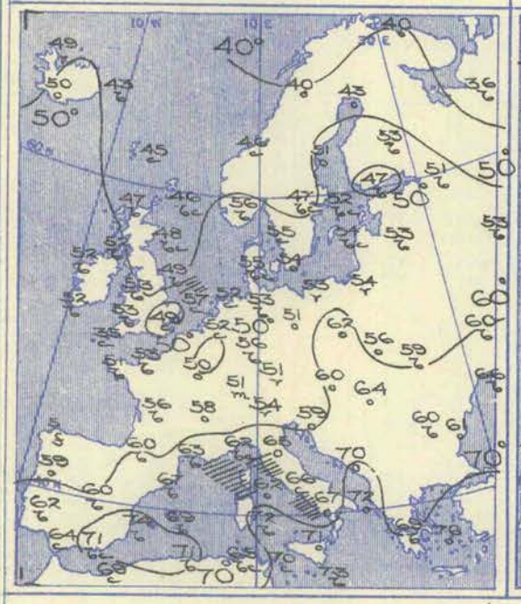
Wind in morning mainly Northerly over the northern and north-western countries, and generally moderate in force. A distinct cyclonic circulation prevailing over Denmark, and also over the south of France and its vicinity, but hardly any stations reporting a greater force than a fresh breeze. Northerly current increasing in several parts of France and Spain during day, as well as on the south-west coast of Norway.

Barometer in morning ranging from above 30·1 in. between these Islands and Iceland and also on the Atlantic to the south-west of Spain to below 29·7 in. in a depression over the south of France and in another over the Kattegat. Relatively low in the far north of Russia, and also to the northward of the Azores. French depression moving eastward later and a minimum of some importance developing over Bavaria. Atlantic depression making very little progress eastward, and high pressure systems undergoing little modification.

Wednesday, 14th June, 1911.

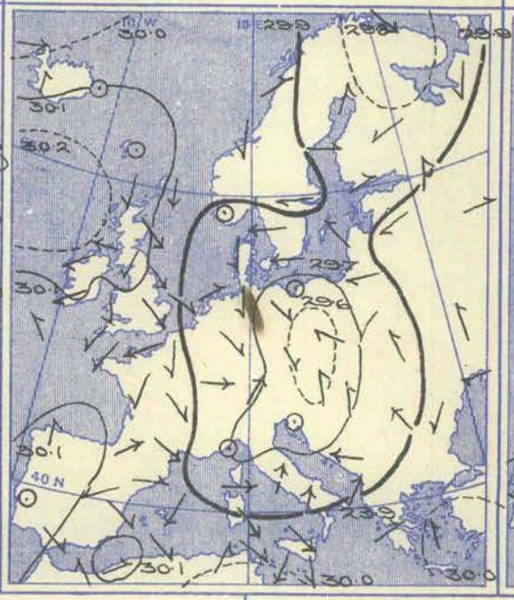
Temperature and Weather.

7 a.m.

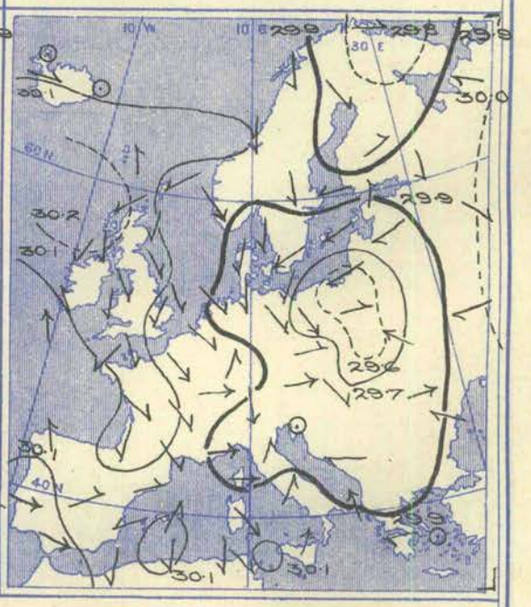


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in several parts of central Europe and the north of Italy, and showery at Shields; generally fair to bright elsewhere. Considerable or heavy falls of rain later in Austria-Hungary, Germany, Switzerland, and northern Italy; as much as 4·1 in. at Lugano.

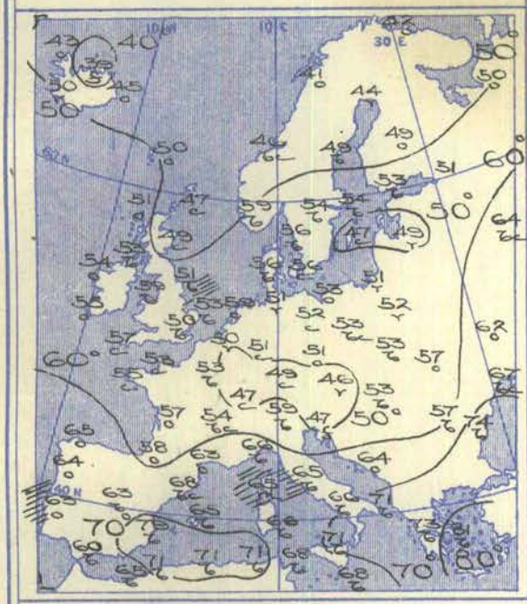
Temperature changed rather irregularly; fallen in Germany and France. Morning readings ranging from 76° at Athens and about 70° at several other southern stations to about 50° over a wide area over these Islands and the northern half of the Continent, and to 40° or lower in the extreme north. Rising during day to 88° at Athens, to about 80° at Brindisi and on the coast of Algeria, and to 99° at Biskra. Maxima below 60° at many stations in these Islands, the Netherlands, and Germany. Ground frost at night in several parts of this country.

Wind in morning cyclonic very generally. Northerly current moderate to fresh in most parts of this country, but high at Spurn Head; Westerly current fresh or strong on the Mediterranean. Increasing to a high wind from West by evening in the north of Italy, but no general change occurring.

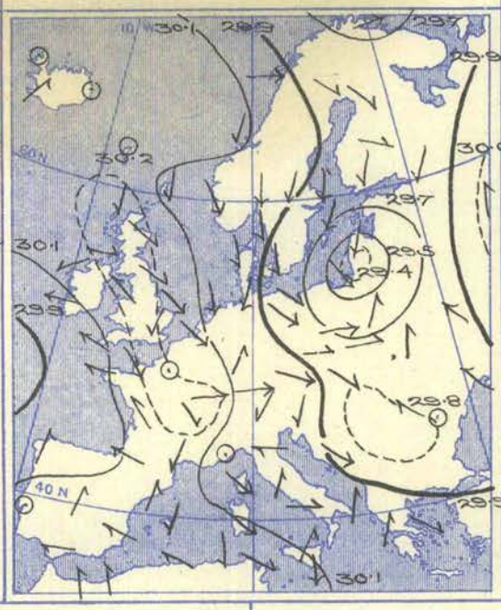
Barometer in morning above 30·1 in. off the north-west of Scotland, and also over the greater portion of the Spanish Peninsula; below 29·6 in. in a large depression having its centre in Germany, and relatively low in a large system on the Atlantic some distance to the south-west of these Islands. Continental disturbance moving eastward later and undergoing some modification in form, but that on the Atlantic remaining almost stationary. Pressure increasing somewhat over these Islands and France.

Thursday, 15th June, 1911.

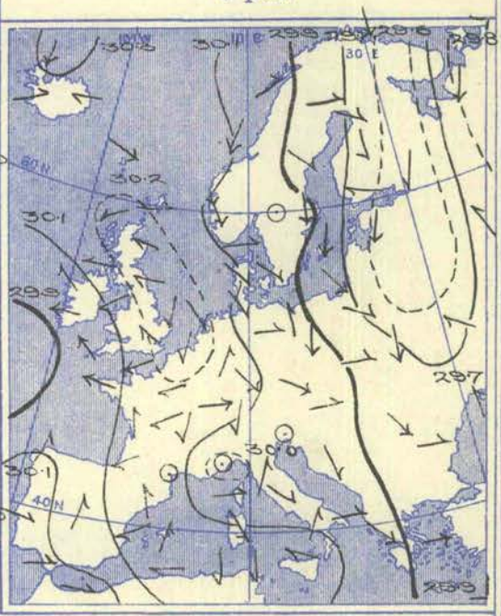
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy over a large area in central Europe, as well as at Trieste and Brussels, and overcast in the west and south of Ireland. Fair to bright in almost all other regions, but rain falling in the extreme north of Sweden and in Iceland. Some rain later in the most western and south-western parts of these Islands and in Brittany, and larger quantities in Germany, Austria, and on the shores of the Gulf of Finland.

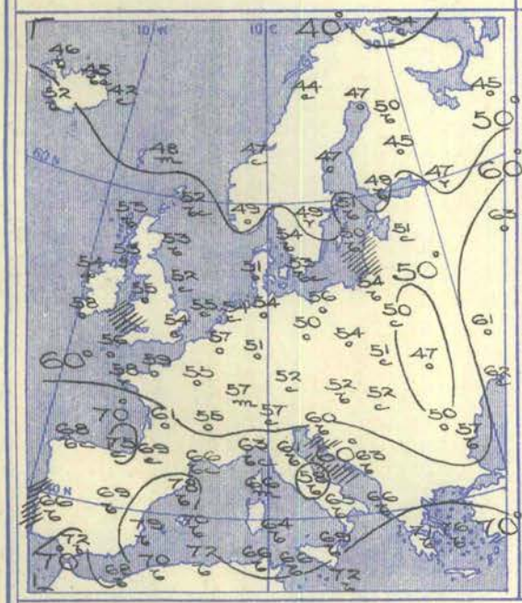
Temperature fallen over the major portion of the Continent. Morning readings ranging from 81° at Athens and about 70° at some other southern stations to below 50° in some parts of France, Germany, and the greater part of Scotland, and to below 45° in the far north of the Continent. Maxima during day lower than 65° over most of this country and over large areas in Germany and Austria, but above 75° at many stations in southern Europe, 80° in places, and 88° at Athens.

Wind in morning cyclonic over nearly the whole of the Continent, and also on the Atlantic and in the south-west of these Islands. Northerly to North-Westerly current fresh to strong on the North Sea, the Baltic, and in Scandinavia, but little force generally. Increasing to a high wind at Memel later, and to a gale at Skudesnaes. South-Easterly wind becoming fresh or strong on our south-west coasts.

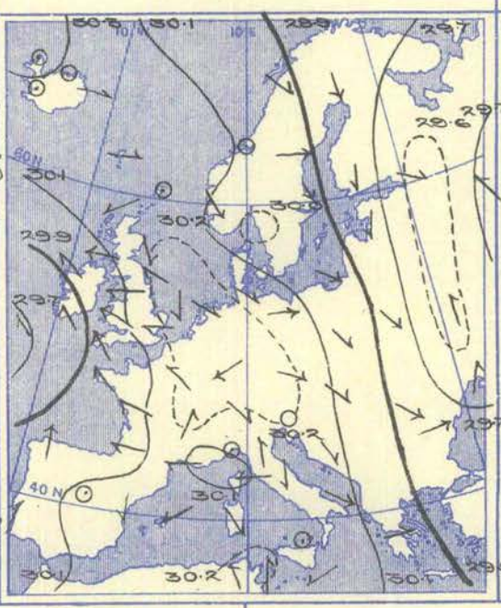
Barometer in morning above 30·2 in. in an elongated anticyclonic system over these Islands and France; below 29·4 in. in a large depression centred over East Prussia, and relatively low in some other disturbances on the Continent, as well as on the Atlantic. Main depression moving eastward during day and anticyclone travelling slowly in the same direction. Atlantic disturbance extending slowly over the west and south-west of the United Kingdom.

Friday, 16th June, 1911.

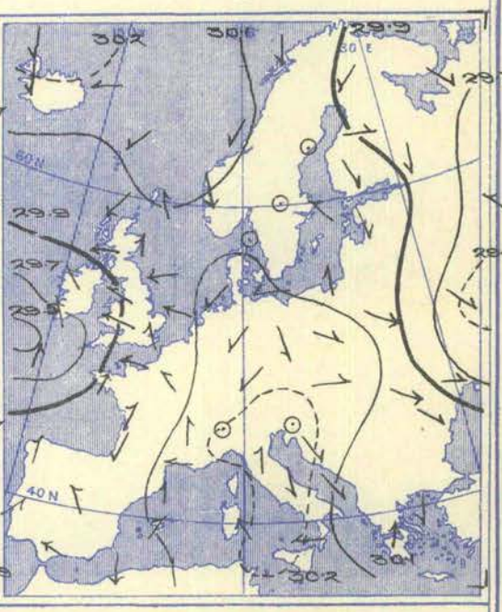
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in Ireland, Wales, the south and south-west of England and in Brittany, with rain at Blacksod Point, Brest and Lorient. Overcast or very cloudy in many localities over the northern half of the Continent, and rainy at St. Petersburg and Karlstad. Generally fair to fine in the south of our area, and also in Scotland. Rain becoming general later over these Islands and the west and north of France, the fall being very considerable in many places. Thunderstorms occurring in several French districts. Very heavy rain experienced in central and southern Russia; as much as 1·8 ins. at Kieff.

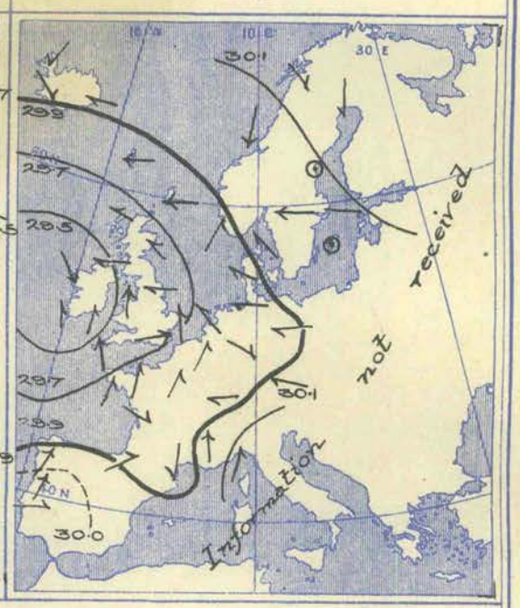
Temperature risen slightly in most regions. Morning readings above 75° in Greece, and about 70° at several stations in the far south; below 60° generally, below 50° in the east of Poland, in Finland, and less than 40° at Vardö. Maxima during day below 70° at nearly all our own stations, and below 65° over a large area. Thermometer remaining low in central Europe, but rising to about 80° at many places in the south, to 88° at Biarritz and San Fernando, to 91° at Bilbao.

Wind in morning moderate to fresh from the South-Eastward over the Bay of Biscay, England, and Ireland, and from the North-Westward in Scandinavia, the Baltic, and central Europe, but light from the Southward or South-Eastward in central Russia. Light or moderate winds from various quarters prevailing over the Mediterranean. No general change occurring later in day.

Barometer in morning ranging from above 30·3 ins. in the north of Iceland and above 30·2 ins. in an anticyclone extending from the east of Scotland to the Adriatic; below 29·6 ins. in an elongated depression over the west of Russia, and below 29·8 ins. in a large system on the ocean to the south-west of these Islands. Atlantic depression continuing to move slowly towards the United Kingdom during day, and anticyclone receding south-eastward and decreasing somewhat in intensity.

Saturday, 17th June, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.



Weather in morning rainy over a wide area in these Islands and the nearer portion of the Continent and also in southern Russia and at Bodö. Fair to very fine in most other regions, Thunderstorms occurring later in various parts of this country, with heavy rain in places. and rain falling in many parts of France, the Netherlands, and central Europe.

Temperature risen in most parts of western and north-western Europe. Morning readings ranging from 77° at Barcelona and above 70° at some other stations in the far south to nearly 60° at many places in England and Ireland, to below 50° at Lemberg and Kieff, and to 41° and 40° respectively at Archangel and Vardö. Maxima during day below 60° in Scotland and northern Ireland, and below 70° in most other parts of these Islands. Above 75° at several stations in France, 80° at Perpignan, and 81° at Belfort.

Wind in morning between South and South-East over the United Kingdom, and fresh in several localities. Light, variable breezes prevailing over the Mediterranean and southern Europe, and a well-marked cyclonic circulation over Russia. Scarcely any change taking place later in day over the western half of our area, but Easterly current becoming more marked between Iceland and Scotland.

Barometer in morning above 30·1 ins. over a large portion of the south of our area, and also between northern Norway and Iceland. Below 29·5 ins. in a large depression having its minimum on the Atlantic some distance to the westward of Ireland, and also in another disturbance over Russia. Atlantic system moving slowly eastward during day, and a secondary disturbance appearing over France. Pressure decreasing rather decidedly in Iceland as well as over these Islands and the adjacent part of the Continent.

South Kensington, London, S.W. *June 20th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 25. TWENTY-FIFTH WEEK, SUNDAY, JUNE 18TH, TO SATURDAY, JUNE 24TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d

I.—General Remarks.

Weather was very changeable throughout, but in the earlier half of the week most districts were favoured with fairly long intervals of bright sunshine. Thunderstorms occurred in many parts of the country on Sunday and Monday, and heavy rain was experienced in the west of Scotland on Wednesday. A still heavier fall occurred over the eastern half of England on Friday, and over nearly the whole of North Britain on the following day.

Temperature did not differ greatly from the normal. Over the northern, eastern and central parts of the country it was in excess, but in most of the western districts there was a slight deficit. The highest readings occurred as a rule early in the week, but it was only in the eastern and central parts of Great Britain that the thermometer rose even a trifle above 70°; in Ireland S. and the English Channel it did not exceed 65°. The lowest temperatures were recorded at various times during the week, mostly on the 20th, 21st, or 24th. The minima in the screen ranged from 40° in Scotland W. and 41° in Scotland E. and Ireland N., to 49° in England S.E. and 51° in England E. The lowest grass minima reported were 34° at Armagh on the 24th, and 37° at Crathes on the 24th, and at Markree Castle on the 23rd.

Mean Temperature of the Sea. On our south-west coasts the sea water was warmer than during the corresponding time last year, but in most other localities it was rather cooler. The mean values for the week ranged from 60° at Margate and 58° and upwards at the English Channel stations generally to 50° at Lerwick and Berwick.

Rainfall was largely in excess of the average, especially in Scotland E., England N.E., the Midland Counties and England N.W. Amounts ranging between 1·0 in. and 1·5 in. were recorded on the 23rd at most places in the eastern half of England, and still larger quantities on the 24th in the north of England and the east of Scotland. During the two days the aggregate fall amounted to as much as 3·1 inch at Marchmont, 3·5 in. at Morpeth and North Shields, and 3·6 in. at Alnwick Castle. In districts 1 and 2 the fall exceeded any previously recorded for the corresponding week of the year.

Bright Sunshine was considerably less than the average in all districts excepting Scotland N., where the deficit was small. The percentage of the possible duration ranged from 39 in the English Channel, and 30 in England S.E. to 23 in the Midland Counties, and 22 in England N.W.

Barometer and Wind. Early in the week, when a depression advanced over our northern districts from the Atlantic, the prevailing winds were from between South and West, over England and Ireland, but from East in Scotland. After the middle of the period South-Westerly winds became general, blowing very strongly on many parts of our coasts. On Friday a complex low pressure system was developed over the southern portion of the United Kingdom, and by the close of the week, when the principal minimum moved northwards along our east coasts, a strong current from the Northward, reaching in places the force of a gale, set in over all our more western and northern districts.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 196.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 3 weeks from June 4th, 1911.	Warmth ...	1 * 1	1 * 1	2 * 1	2 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 0	1 * 0
	Rainfall ...	1 * 2	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	2 * 1	2 * 0
	Sunshine ...	1 * 0	2 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	2 * 1	2 * 1	2 * 1	1 * 1	2 * 1

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9758/450 Wy. & S., Ltd. 6–11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FIFTH WEEK—June 18th to June 24th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	42	59·3	49·0	53·8	+ 0·4	83	+ 3	0	0	5	+ 1	1·52	+0·83	32	- 3	25	- 2
Eastern																		
1. SCOTLAND, EAST	71	41	62·5	48·5	55·0	+ 0·2	91	+ 1	0	0	5	+ 2	1·85	+1·31	30	- 12	25	-10
2. ENGLAND, N.E.	71	46	65·2	52·1	58·2	+ 2·2	113	+ 15	0	0	5	+ 1	2·96	+2·54	33	- 11	28	-10
3. ENGLAND, EAST	72	51	66·2	53·8	59·6	+ 1·8	123	+ 13	0	0	5	+ 2	1·63	+1·20	29	- 19	25	-16
4. MIDLAND COUNTIES	73	42	65·0	52·1	58·1	+ 0·5	113	+ 4	0	0	5	+ 2	1·31	+0·83	27	- 16	23	-14
5. ENGLAND, S.E.	69	49	63·5	53·5	58·2	- 0·3	113	- 3	0	0	5	+ 3	1·20	+0·80	34	- 15	30	-13
Western																		
6. SCOTLAND, WEST ..	69	40	61·2	50·4	55·4	- 0·6	94	- 4	0	0	6	+ 2	1·46	+0·74	29	- 15	24	-12
7. ENGLAND, N.W.	70	42	62·5	52·1	57·0	0·0	105	0	0	0	6	+ 3	1·78	+1·20	26	- 18	22	-16
8. ENGLAND, S.W.	69	45	61·7	52·5	56·8	- 0·8	104	- 5	0	0	6	+ 2	1·26	+0·72	33	- 15	29	-13
9 IRELAND, NORTH	67	41	60·6	49·8	54·8	- 1·2	90	- 7	0	0	6	+ 2	1·08	+0·42	28	- 11	24	- 9
10. IRELAND, SOUTH	66	43	62·6	50·4	56·1	- 1·3	99	- 9	0	0	6	+ 2	0·91	+0·28	30	- 12	26	-10
11. ENGLISH CHANNEL	66	48	62·4	54·0	57·9	- 0·6	111	- 4	0	0	5	+ 2	1·13	+0·72	44	- 14	39	-11

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 3 Weeks, June 4th to June 24th, 1911.

0. SCOTLAND, NORTH	73	35	*	*	*	*	220	0	0	- 2	9	- 2	1·84	- 0·03	120	+ 8	32	+ 2
Eastern																		
1. SCOTLAND, EAST	81	28	*	*	*	*	252	+ 7	5	+ 4	9	0	2·30	+0·81	152	+26	42	+ 7
2. ENGLAND, N.E.	84	32	*	*	*	*	294	+ 29	0	0	10	+ 1	3·54	+2·27	151	+21	43	+ 6
3. ENGLAND, EAST	83	34	*	*	*	*	329	+ 26	0	0	9	0	2·08	+0·59	159	+18	46	+ 5
4. MIDLAND COUNTIES	83	32	*	*	*	*	323	+ 20	0	0	8	0	1·71	+0·29	146	+18	42	+ 5
5. ENGLAND, S.E.	83	32	*	*	*	*	339	+ 15	0	0	7	- 1	1·57	+0·20	175	+31	51	+ 9
Western																		
6. SCOTLAND, WEST .. .	80	31	*	*	*	*	272	- 1	0	0	9	- 1	2·15	+0·21	163	+27	46	+ 8
7. ENGLAND, N.W.	82	34	*	*	*	*	299	+ 9	0	0	9	0	2·41	+0·92	170	+31	48	+ 9
8. ENGLAND, S.W.	82	30	*	*	*	*	332	+ 24	0	0	10	0	1·86	+0·28	174	+29	51	+ 9
9. IRELAND, NORTH	79	31	*	*	*	*	265	- 5	0	0	8	- 3	1·57	- 0·25	146	+25	41	+ 7
10. IRELAND, SOUTH	82	36	*	*	*	*	321	+ 18	0	0	10	0	1·82	+0·08	151	+18	44	+ 5
11. ENGLISH CHANNEL	79	46	*	*	*	*	356	+ 32	0	0	9	- 1	2·42	+1·16	187	+18	56	+ 5

THE YEAR.—Aggregates, &c., for the Period of 25 Weeks, January 1st to June 24th, 1911.

0. SCOTLAND, NORTH	83	14	*	*	*	*	765	+ 97	415	-142	100	-15	22·97	+0·26	660	+ 53	30	+ 3
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	841	+ 65	492	-128	91	- 2	11·83	- 0·92	750	+ 56	35	+ 3
2. ENGLAND, N.E.	84	19	*	*	*	*	979	+162	371	-104	79	- 7	9·81	+0·06	726	- 6	34	0
3. ENGLAND, EAST	83	16	*	*	*	*	1104	+110	409	-112	83	- 1	9·90	+0·09	812	+ 36	38	+ 2
4. MIDLAND COUNTIES	83	14	*	*	*	*	1114	+ 92	415	-118	68	-14	7·89	-3·24	692	- 3	32	0
5. ENGLAND, S.E.	83	16	*	*	*	*	1126	+ 35	361	- 20	71	- 8	9·60	-1·38	843	+ 68	39	+ 3
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	1007	+142	347	- 78	86	-13	18·48	-1·28	770	+ 62	36	+ 3
7. ENGLAND, N.W.	83	17	*	*	*	*	1044	+130	314	- 72	76	-14	12·80	-0·98	796	+ 86	37	+ 4
8. ENGLAND, S.W.	82	13	*	*	*	*	1109	+ 36	297	- 4	79	-11	13·32	-2·34	840	+ 59	39	+ 3
9. IRELAND, NORTH	79	18	*	*	*	*	995	+ 65	302	- 43	83	-23	12·07	-3·71	774	+ 92	36	+ 4
10. IRELAND, SOUTH	82	18	*	*	*	*	1217	+ 95	295	+ 36	94	- 2	13·71	-3·55	794	+ 40	37	+ 2
11. ENGLISH CHANNEL	79	28	*	*	*	*	1286	+ 43	135	+ 26	85	-12	11·26	-1·92	935	+ 3	44	0

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°.	Below 42°.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	58	24th	44	23rd	54·9	47·4	50·9	—	62	0	7	1·18	—	16·8	—	13	—	Baltasound.
	a Lerwick	60	20th	47	23rd, 24th	55·7	48·4	51·8	+ 2·2	69	0	4	0·92	—	27·1	− 8·1	21	− 6	Deerness.
	a Stornoway	62	18th, 20th	47	23rd	59·3	49·9	54·3	+ 1·9	86	0	4	0·86	+ 0·29	49·1	+ 6·5	39	+ 5	Stornoway.
	a Castlebay, Barra Isd.	60	18th	48	23rd, 24th	57·1	50·6	53·6	− 1·6	81	0	6	0·93	—	43·2	—	35	—	Castlebay.
	a Wick	59	22nd, 23rd	47	21st	56·6	49·6	52·9	+ 0·7	76	0	5	2·18	+ 1·73	*	*	*	*	* *
b, Mainland.	p Strathpeffer	68	19th	45	24th	63·5	49·0	55·8	+ 1·6	97	0	6	0·91	+ 0·46	29·3	− 7·7	24	− 6	Strathpeffer.
	p Glencarron S	64	18th	42	24th	59·4	48·3	53·5	+ 0·5	81	0	6	2·40	+ 1·42	*	*	*	*	* *
	p Fort Augustus S	65	19th	43	23rd, 24th	60·1	48·2	53·7	− 0·6	82	0	6	1·15	+ 0·68	21·1	− 9·9	17	− 8	Fort Augustus.
	p Fort William S	65	18th, 19th	43	24th	60·7	49·3	54·6	− 0·7	88	0	6	2·25	+ 1·38	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	70	22nd	44	24th	65·9	48·6	56·7	+ 2·0	103	0	3	1·23	+ 0·74	30·5	—	25	—	Gordon Castle.
	a Nairn	66	19, 20, 23rd	41	24th	63·6	47·6	55·0	+ 3·5	91	0	5	2·07	+ 1·68	31·9	—	26	—	Nairn.
	a Aberdeen	69	22nd	49	18th, 24th	63·4	50·7	56·6	+ 2·8	102	0	5	1·71	+ 1·28	34·0	− 9·0	28	− 7	Aberdeen.
	a Balmoral S	64	22nd	41	24th	60·9	45·9	52·9	+ 0·6	76	0	4	0·80	+ 0·33	25·3	—	21	—	Crathes S.
	p Crieff S	71	19th	45	24th	63·4	48·4	55·4	− 0·6	94	0	5	1·44	+ 0·79	25·7	—	21	—	Balruddery.
	a Leith	67	22nd	48	24th	61·9	52·0	56·6	+ 0·7	102	0	6	2·05	+ 1·61	*	*	*	*	* *
	p West Linton S	65	19th	42	21st	59·4	46·2	52·3	− 0·8	72	0	7	—	—	—	—	—	—	West Linton.
	p Marchmont S	65	19th, 20th	44	23rd	61·6	48·4	54·5	+ 0·9	88	0	6	3·63	+ 3·10	34·8	− 8·4	29	− 7	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	69	20th	48	18th, 23rd	63·9	50·4	56·7	+ 2·2	103	0	5	4·07	+ 3·59	24·7	—	21	—	Cockle Park.
	a Shields	68	21st	48	20, 23, 24th	61·3	50·6	57·0	+ 2·3	105	0	5	4·01	+ 3·53	25·4	− 7·8	21	− 7	Newcastle.
	p Durham	69	18th	48	20th, 23rd	63·6	50·6	56·7	+ 1·0	103	0	5	2·87	+ 2·44	28·6	− 11·7	24	− 10	Durham.
	p Rounton M	68	21st	46	20th	64·6	50·6	57·1	+ 2·1	106	0	6	2·70	+ 2·24	*	*	*	*	* *
	p Scarborough M	70	20th, 22nd	51	19th, 20th	66·9	53·6	59·8	+ 4·1	125	0	5	3·12	+ 2·70	42·4	—	36	—	Scarborough.
	p York	71	22nd	50	20th	66·6	53·0	59·3	+ 1·7	121	0	4	2·68	+ 2·18	33·7	− 7·6	29	− 6	York.
	a Spurn Head	70	22nd	54	18, 19, 20, 24	64·4	54·4	59·1	+ 3·2	120	0	4	2·61	+ 2·25	*	*	*	*	* *
b, South.	a Lincoln	70	18, 21, 22nd	50	20th	66·4	52·7	59·1	+ 0·6	120	0	4	2·56	+ 2·10	35·5	—	30	—	Skegness.
	a Fulbeck	70	18, 21, 22nd	49	20th	66·1	53·2	59·2	+ 1·2	120	0	5	2·00	+ 1·56	30·3	—	26	—	Rauceby.
															35·1	—	30	—	Lowestoft.
3. ENGLAND, E. — a, North.	p Cromer	70	18th, 23rd	51	19th, 21st	66·7	52·9	59·3	+ 3·0	121	0	5	1·37	—	26·7	—	23	—	Cromer.
	p Hillington M	70	20th	51	19th, 21st	66·7	52·6	59·2	+ 1·5	120	0	7	2·75	+ 2·22	21·2	− 24·8	18	− 21	Hillington.
	a Yarmouth	69	18th, 20th	53	19th, 21st	66·3	54·7	60·1	+ 3·3	127	0	3	0·92	+ 0·50	29·6	—	26	—	Yarmouth.
	a Norwich	69	18th	52	19th	66·4	54·1	59·8	+ 2·8	125	0	5	1·79	—	*	*	*	*	* *
	p Geldeston	69	19, 20, 23rd	52	19th, 21st	67·5	53·7	60·1	+ 2·9	127	0	5	1·46	+ 1·03	31·6	− 16·7	27	− 14	Geldeston.
	p Cambridge	72	18th	52	19th, 21st	67·6	53·3	60·0	+ 1·1	126	0	5	1·66	+ 1·18	31·4	− 15·0	27	− 13	Cambridge.
b, South.	a Felixstowe	68	18th, 19th	54	21st, 24th	66·6	55·4	60·6	+ 2·7	130	0	5	2·09	—	42·9	—	37	—	Felixstowe.
	a Clacton-on-Sea	69	20th	54	20, 21, 24th	65·9	55·3	60·2	+ 2·5	127	0	5	1·58	—	37·3	—	32	—	Clacton.
	a Rothamsted	67	23rd	51	20th	64·0	52·5	57·9	+ 0·4	111	0	7	1·84	+ 1·34	24·3	− 20·8	21	− 18	Rothamsted.
	a Shoeburyness	69	18th	50	20th	66·9	54·3	60·2	+ 0·3	127	0	2	1·35	+ 0·95	35·1	—	31	—	Southend.
	p Tottenham	68	21st	53	20th, 24th	64·8	54·8	59·5	+ 1·2	123	0	3	1·34	—	25·7	—	22	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	67	21st	47	23rd	64·1	51·1	57·2	+ 1·5	106	0	3	1·87	+ 1·33	29·3	—	25	—	Harrogate.
	a Bawtry	73	22nd	51	20th, 24th	67·9	53·0	59·9	+ 2·0	125	0	3	2·39	+ 1·96	28·0	− 10·6	24	− 9	Worksop.
	p Buxton M	65	21st	47	23rd, 24th	62·1	49·6	55·4	+ 2·0	94	0	6	2·01	+ 1·23	30·3	—	26	—	Buxton.
	a Nottingham	70	18th, 22nd	50	20th	65·7	52·4	58·6	+ 0·8	116	0	4	1·37	+ 0·91	24·1	—	21	—	Nottingham.
	p Birmingham, Edgbsn	67	22nd	49	24th	62·7	52·0	57·0	0·0	105	0	6	1·19	+ 0·69	14·6	—	13	—	Birmingham.
	a Raunds M	71	18th, 23rd	50	20th	68·4	52·3	59·8	+ 1·7	125	0	5	1·01	—	*	*	*	*	* *
	a Oxford	70	18th	51	20th	65·0	53·6	58·9	+ 0·2	118	0	5	0·64	+ 0·13	23·5	− 21·9	20	− 19	Oxford.
b, West.	a Cheadle M	67	18th, 21st	42	24th	63·3	49·5	55·9	0·0	97	0	5	1·57	+ 0·97	35·2	—	30	—	Sheffield.
	p Shrewsbury	68	21st	49	23rd	63·8	52·1	57·5	− 0·2	109	0	4	1·25	—	*	*	*	*	* *
	p Hereford M	67	18th, 22nd	48	24th	64·6	52·5	58·1	− 0·3	113	0	5	1·29	+ 0·79	*	*	*	*	* *
	a Cirencester	69	18th	48	24th	65·1	50·9	57·5	+ 0·6	109	0	5	1·29	+ 0·75	21·5	− 23·9	19	− 21	Cirencester.
	a Bath	71	18th	51	23rd, 24th	64·9	54·0	59·1	+ 0·7	120	0	7	0·58	+ 0·04	36·7	—	32	—	Bath.
															44·5	—	39	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	68	18th	53	20, 21, 24th	65·6	54·1	59·5	+ 0·8	123	0	5	0·90	+ 0·40	25·2	− 20·2	22	− 18	Kew.
	a Marlborough	66	20th	50	20th	63·3	52·0	57·3	+ 0·4	107	0	6	1·49	+ 0·92	24·3	− 18·0	21	− 16	Marlborough.
	a Margate	68	20th, 21st	51	22nd	66·4	53·3	59·4	+ 1·1	122	0	4	0·81	+ 0·39	40·9	− 2·3	36	− 2	Margate.
	a Wisley, Surrey	67	18th, 21st	51	20th	64·5	53·8	58·8	− 0·9	118	0	5	1·18	—	32·1	—	28	—	Wisley.
	a Swarraton M	66	18th	49	23rd	62·6	52·3	57·1	− 0·1	106	0	6	1·33	+ 0·83	38·8	—	34	—	Worthing.
	a Tunbridge Wells M	69	20th	50	22nd, 24th	64·0	51·8	57·5	− 0·3	109	0	4	1·48	+ 0·98	33·0	− 13·7	29	− 12	Tunbridge Wells.
	a Dungeness	66	20th	53	24th	62·0	54·7	58·1	+ 0·4	113	0	5	1·65	+ 1·31	39·1	—	34	—	Littlestone.
	p Hastings	64	20th	51	20th	61·9	53·8	57·6	− 0·5	109	0	5	1·23	+ 0·79	39·8	− 13·5	35	− 12	Hastings.
	p Southampton	68	20th	52	20th, 24th	63·6	54·3	58·6	− 1·7	116	0	6	0·97	+ 0·50	28·3	− 20·6	25	− 18	Southampton.
	a Ventnor	63	18, 20, 21st	51	24th	60·9	54·7	57·6	− 1·5	109	0	5	0·98	+ 0·53	33·0	− 12·4	29	− 11	Ventnor.
															41·5	− 10·3	36	− 9	Eastbourne.
LONDON	a Westminster	?73	20th	52	23rd	65·7	54·6	59·8	+ 0·4	125	0	5	1·12	+ 0·62	24·6	− 14·8	21	− 13	Westminster.
	a Greenwich	74	23rd	52	20th, 24th	69·4	53·6	61·0	+ 1·0	133	0	4	0·95	+ 0·48	31·3	− 15·6	27	− 14	Greenwich.
6. — a, SCOTLAND. W.	a Poltalloch S	65	18th, 19th	45	24th	60·7	50·0	55·0	− 1·0	91	0	7	1·65	+ 0·95	*	*	*	*	* *
	p Glasgow S	67	19th	49	23rd	60·5	51·8	55·9	+ 0·2	97	0	7	1·20	+ 0·60	26·1	− 11·6	22	− 10	Glasgow.
	p Rothesay S	67	19th	48	23rd, 24th	62·1	50·9	56·1	− 0·1	99	0	7	1·64	+ 0·92	*	*	*	*	* *
	a Kilmarnock S	66	19th	42	24th	60·7	50·1	55·0	− 0·7	91	0	7	1·08	—	27·9	—	23	—	Kilmarnock.
	a Colmonell S	69	19th	42	24th	61·9	49·7	55·4	− 0·4	94	0	6	1·75	+ 1·17	*	*	*	*	* *
	p Dumfries S	68	19th	48	24th	61·7	51·0	56·0	− 0·9	98	0	6	1·18	+ 0·64	32·5	—	27	—	Dumfries.
	p Cally, Gatehouse S	65	19th	40	24th	60·9	49·2	54·6	− 1·5	88	0	5	1·72	+ 1·04	*	*	*	*	* *
b, ISLE OF MAN	p Douglas	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Douglas.
															—	—	—	—	Hoylake.
7. — a, ENGLAND, N.W.	p Aspatria	66	18th	46	24th	61·6	51·1	56·0	+ 0·5	98	0	6	2·83	+ 2·25	33·9	—	29	—	Aspatria.
	p Newton Rigg	66	19th	47	20th, 23rd	62·1	49·9	55·6	+ 0·9	95	0	6	2·83	+ 2·34	27·3	− 21·0	23	− 18	Newton Rigg.
	p Stonyhurst	64	18th, 21st	49	20th, 23rd	61·9	51·6	56·4	0·0	101	0	7	1·63	+ 0·93	11·2	− 34·2	10	− 29	Stonyhurst.
	p Blackpool M	66	21st	48	24th	62·2	53·5	57·6	+ 0·6	109	0	4	1·54	+ 1·04	29·7	− 16·4	25	− 14	Blackpool.
	p M'nch'ster, Prestwich	67	21st	49	23rd	63·2	52·3	57·4	+ 0·7	108	0	6	1·48	+ 0·85	14·5	− 24·7	12	− 21	Prestwich.
	a Liverpool (Bidston)	68	21st	48	23rd	62·9	52·9	57·6	+ 0·4	109	0	6	1·16	+ 0·63	34·3	—	29	—	Liverpool.
	a Hawarden Bridge	67	18th, 19th	49	24th	63·8	53·5	58·3	+ 0·4	114	0	5	1·58	+ 1·14	39·0	− 8·8	33	− 8	Southport.
															29·3	—	25	—	Rhyl.
b, NORTH WALES	p Llandudno M	70	22nd	48	24th	64·9	53·6	58·9	+ 1·3	118	0	6	1·67	+ 1·22	29·8	− 17·4	26	− 15	Llandudno.
	a Holyhead	63	18th	48	24th	60·9	51·7	56·0	− 0·3	98	0	4	0·83	+ 0·33	26·8	—	23	—	Aberdovey.
	p Bettws-y-Coed	66	21st	42	24th	61·6	50·6	55·7	− 1·3	96	0	7	2·22	—	23·0	—	20	—	Bettws-y-Coed.
															30·2	—	26	—	Aberystwyth.
8. — a, SOUTH WALES	a Llangammarch Wells	63	18th	45	24th	60·9	50·1	55·1	− 1·3	92	0	7	1·48	—	25·3	—	22	—	Llangammarch Wells.
	a Pembroke	61	18th, 20th	49	24th	60·0	52·4	55·9	− 0·2	97	0	5	0·56	+ 0·10	41·4	− 11·0	36	− 10	Pembroke.
	p Cardiff	65	18th, 22nd	47	24th	62·6	52·6	57·3	− 1·6	107	0	6	1·22	+ 0·61	35·7	—	31	—	Cardiff.
															39·5	− 14·0	34	− 13	Tenby.
b, ENGLAND, S.W.	a Clifton	68	18th	51	24th	64·2	54·2	58·9	0·0	118	0	6	1·99	+ 1·44	29·7	—	26	—	Clifton.
	a Shaftesbury M	64	20th	47	24th	60·8	50·0	55·0	− 1·9	91	0	5	1·17	+ 0·62	*	*	*	*	* *
	a Arlington	65	18th	47	24th	61·9	51·6	56·4	+ 0·8	101	0	6	2·26	+ 1·53	37·6	− 13·4	33	− 12	Newquay.
	a Cullompton M	69	18th	46	24th	65·2	52·4	58·4	+ 0·3	115	0	7	1·29	+ 0·79	26·0	− 19·4	23	− 17	Cullompton.
	a Portland Bill	60	23rd	52	24th	57·9	54·1	55·9	− 1·3	97	0	5	0·73	—	34·9	—	31	—	Weymouth.
	p Plymouth	64	20th	50	24th	61·3	53·8	57·3	− 1·6	107	0	6	0·93	+ 0·43	32·0	− 16·8	28	− 15	Plymouth.
	p Falmouth	64	18th, 21st	50	24th	62·4	53·7	57·8	0·0	111	0	7	0·96	+ 0·40	37·4	− 15·0	33	− 13	Falmouth.
															36·1	—	32	—	Salcombe.
															35·7	− 18·3	31	− 16	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	61	19th	49	23rd	58·0	50·7	54·1	− 0·1	85	0	6	0·34	− 0·17	*	*	*	*	* *
	a Blacksod Point	61	19th	48	23rd, 24th	58·1	50·4	54·0	− 1·8	84	0	7	1·59	+ 0·98	*	*	*	*	* *
	p Markree Castle	64	18th	45	23rd	61·0	47·8	53·9	− 1·2	83	0	5	1·21	+ 0·54	25·7	− 13·1	22	− 11	Markree Castle.
	a Birr Castle	65	18th	45	20th	62·3	49·7	55·6	− 1·1	95	0	7	1·02	+ 0·47	29·6	− 9·4	25	− 8	Birr Castle.
b, East.	p Armagh	67	18th	41	24th	62·9	47·9	54·9	− 1·1	90	0	6	0·75	+ 0·17	29·6	− 10·1	25	− 9	Armagh.
	a Donaghadee	65	19th	49	19th	61·4	52·0	56·4	+ 0·8	101	0	4	1·56	+ 1·03	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City	66	18, 20, 22nd	47	24th	64·2	51·3	57·3	− 1·1	107	0	6	0·92	+ 0·48	23·2	− 22·4	20	− 19	Phœnix Park.
	a Kilkenny	66	20th	43	23rd	63·6	49·3	56·0	− 1·3	98	0	6	0·56	0·00	*	*	*	*	* *
	a Waterford	66	20th	43	20th	63·4	49·6	56·0	− 1·7	98	0	5	0·58	− 0·07	*	*	*	*	* *
b, West.	a Birr Castle	65	18th	45	20th	62·3	49·7	55·6	− 1·1	95	0	7	1·02	+ 0·47	29·6	− 9·4	25	− 8	Birr Castle.
	a Foynes	64	18th	47	23rd	60·8	49·8	54·9	− 2·6	90	0	6	0·89	+ 0·33	*	*	*	*	* *
	a Cahir M	65	20, 21, 22nd	43	20th	63·7	48·3	55·5	− 1·5	95	0	6	1·08	—	*	*	*	*	* *
	a Killarney	65	18th	49	24th	62·9	51·1	56·6	− 0·3	102	0	7	1·57	+ 0·90	*	*	*	*	* *
	a Valencia	63	18th	48	24th	60·0	52·7	56·1	− 1·0	99	0	7	0·91	+ 0·16	34·1	− 10·2	30	− 9	Valencia.
	a Roche's Point	65	18th	48	24th	62·3	51·4	56·5	− 0·7	102	0	5	0·64	0·00	32·1	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	64	19th	48	24th	61·9	51·7	56·4	− 1·6	101	0	4	0·88	+ 0·47	39·0	− 18·0	35	− 16	Scilly.
	a Jersey, St. Aubins	66	18th	52	24th	63·1	56·1	59·4	+ 0·1	122	0	5	1·35	+ 0·87	42·0	− 14·7	38	− 13	St. Heliers.
	a Guernsey	65	18th	51	24th	62·2	54·3	58·0	− 0·5	112	0	5	1·17	+ 0·68	49·6	− 7·9	44	− 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 36·7 hrs. (− 15·3 hrs.), 32 % (− 13 %); Bournemouth, 32·1 hrs., 28 %; Bognor, hrs., %.* For notes see opposite page.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	52·9	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	51·8
	Crathes	0	37	56·6	53·1
	Balmoral	0	39	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	41	56·4	—
2.	Cockle Park	0	44	56·2	53·9
	Durham	0	43	—	—
	York	—	—	57·7	54·4
	Hull	0	47	58·9	52·9
	Lincoln	—	—	59·0	54·6
	Rauceby	0	45	62·6	56·2
3.	Norwich	0	47	—	—
	Yarmouth	—	—	62·9	59·0
	Lowestoft	0	48	61·2	56·4
	Cambridge	0	46	61·2	57·1
	Clacton-on-Sea ..	0	47	59·4	56·2
	Southend	0	50	62·3	—
	Tottenham	0	50	—	59·3
4.	Harrogate	0	42	56·1	54·2
	Huddersfield ..	0	44	59·2	53·8
	Buxton	?	?	56·9	51·6
	Sheffield	0	47	57·5	52·6
	Nottingham.. ..	0	46	60·5	56·2
	Birmingham.. ..	0	44	54·8	51·9
	Oxford	0	—	—	—
	Hereford	0	45	—	—
	Cirencester	0	44	58·7	55·3
	Bath	—	—	61·6	58·3
5.	Margate	0	49	60·2	56·6
	Greenwich	0	42	—	—
	Westminster ..	0	50	—	—
	Kew	0	46	59·8	55·8
	Canterbury	0	46	60·1	58·0
	Tunbridge Wells ..	0	45	60·9	—
	Wisley	0	46	61·4	57·9
	Worthing	0	49	61·6	58·0
	Portsmouth	0	50	62·3	59·0
6.	Glasgow	0	40	—	—
	Rothesay	—	—	—	54·4
	Colmonell	0	39	—	—
6.	Dumfries	0	45	60·7	58·0
	Douglas	—	—	—	—
7.	Aspatria	0	39	58·5	53·5
	Newton Rigg ..	0	43	58·6	53·6
	Burnley	0	40	56·3	52·9
	Southport	0	42	62·8	58·5
	Manchester City ..	0	44	59·1	57·2
	Bettws-y-Coed ..	0	42	57·7	54·0
8.	Llangammarch Wells	0	35	56·0	52·3
	Cardiff	0	44	60·5	57·2
	Clifton	0	47	—	—
	Plymouth	0	43	61·6	—
9.	Armagh	0	34	58·8	55·3
	Markree	0	37	58·4	54·7
10.	Dublin, Trin. Coll. ..	0	39	60·0	56·9
11.	Guernsey, Brooklyn	0	46	61·4	58·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	49	50·1
	Kirkwall	54	52	52·7
	Wick	51	51	51·0
SCOTLAND E.	Cromarty	59	55	56·7
	Pennan Bay	52	50	51·1
	Aberdeen, Cove Bay ..	52	51	51·4
ENGLAND, N.E.	Burnmouth, Berwick ..	52	48	49·8
	Scarborough	57	53	54·5
ENGLAND, E.	Shipwash Lightship ..	60	57	58·6
	Margate‡	62	59	60·4
ENGLAND, S.E.	Eastbourne‡	60	59	59·1
SCOTLAND, W.	Lamlash	60	55	56·1
	Ballantrae	54	49	52·0
ENGLAND, N.W.	Port Erin	56	52	53·8
ENGLAND, S.W.	Newquay	60	58	58·8
	Scilly	59	55	57·9
	Plymouth‡	59	58	58·4
	Salcombe	57	54	56·1
IRELAND, N.W.	Sheephaven	57	57	57·0
	Teelin	60	54	57·0
IRELAND, S.W.	Cleggan	59	51	54·8
	Seafield	59	53	56.2
IRELAND, E. ..	.. ..	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR MAY, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 17, p. 138	7. England, N.W. ..	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 18, p. 146	4. Midland Co... ..	—	—	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 162	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	0·38	0·00	—	—	—	—
No. 20, p. 162	10. Ireland, S.	—		—	—	—	—	—	—	—	—	—	—	—	50	+3	46	+2
No. 21, p. 170 .. .	8. England, S.W. ..	76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 22, p. 178	0. Scotland, N... ..	—	—	—	—	69·6	—	58·6	+8·4	116	—	—	—	—	—	—	—	—
Station Values.— Additions.																		
No. 21, p. 171	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	—	—	52·1	+0·4	48	+1
No. 22, p. 179	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	85·5	—	76	—
Station Values.— Corrections.																		
No. 17, p. 139	Fulbeck	—	—	—	—	—	43·5	49·9	+2·6	55	—	6	0·50	+0·13	—	—	—	—
No. 18, p. 147	Nairn	—	—	—	—	—	—	—	—	—	—	—	—	—	41·5	—	39	—
No. 18, p. 147	Scarborough	—	—	—	—	—	—	—	—	—	—	4	0·24	−0·16	—	—	—	—
No. 18, p. 147	Fulbeck	—	—	—	6th	—	—	—	—	—	—	2	0·14	−0·26	—	—	—	—
No. 18, p. 147	Cromer	—	—	—	—	—	49·9	48·1	+1·4	—	3	—	—	—	—	—	—	—
No. 18, p. 147	Cheadle .. .. [illegible]	—	—	36	3rd	—	40·1	47·5	+0·5	46	5	—	—	—	—	—	—	—
No. 18, p. 147	Shrewsbury	—	—	37	6th	—	40·4	48·6	−0·4	53	4	—	—	—	—	—	—	—
No. 18, p. 147	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	1·02	+0·51	—	—	—	—
No. 19, p. 155	Fulbeck	—	—	—	9th	—	42·4	54·2	+4·7	85	—	—	—	—	—	—	—	—
No. 19, p. 155	Cheadle .. .. [illegible]	67	11th	—	—	62·7	—	52·6	+4·4	74	—	—	—	—	—	—	—	—
No. 19, p. 155	Shrewsbury	—	—	41	9, 10	—	44·7	55·4	+5·2	94	—	—	—	—	—	—	—	—
No. 20, p. 163	Fulbeck	—	—	—	—	—	—	—	—	—	—	2	0·46	+0·03	—	—	—	—
No. 20, p. 163	Cheadle .. .. [illegible]	—	—	—	—	—	47·6	53·6	+4·2	81	—	—	—	—	—	—	—	—
No. 20, p. 163	Blackpool	63	14, 17	—	—	60·8	—	53·0	+2·6	77	—	—	—	—	—	—	—	—
No. 20, p. 163	Manchester, Prestwich	—	—	—	—	—	49·1	55·5	+5·5	95	—	—	—	—	—	—	—	—
No. 20, p. 163	Valencia	—	—	—	—	—	—	—	—	—	—	—	—	—	63·2	+15·3	59	+14
No. 21, p. 171	Fort Augustus .. [illegible]	—	—	—	—	62·9	—	53·7	+4·5	82	—	—	—	—	—	—	—	—
No. 21, p. 171	Cromer	—	—	—	—	—	47·5	57·3	+6·2	107	—	—	—	—	—	—	—	—
No. 21, p. 171	Cheadle .. .. [illegible]	—	—	—	—	—	47·9	57·2	+6·4	106	—	—	—	—	—	—	—	—
No. 21, p. 171	Shaftesbury .. [illegible]	71	—	—	—	65·4	—	55·9	+4·6	97	—	—	—	—	—	—	—	—
No. 21, p. 171	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	0·18	−0·32	—	—	—	—
No. 22, p. 179	Fort Augustus .. [illegible]	78	29th	—	—	74·2	—	60·0	+9·5	126	—	—	—	—	—	—	—	—
No. 22, p. 179	Pembroke	—	—	—	—	—	—	—	—	—	—	0	0·00	−0·43	—	—	—	—
No. 22, p. 179	Markree Castle ..	—	—	—	—	73·2	—	59·2	+7·3	120	—	—	—	—	—	—	—	—

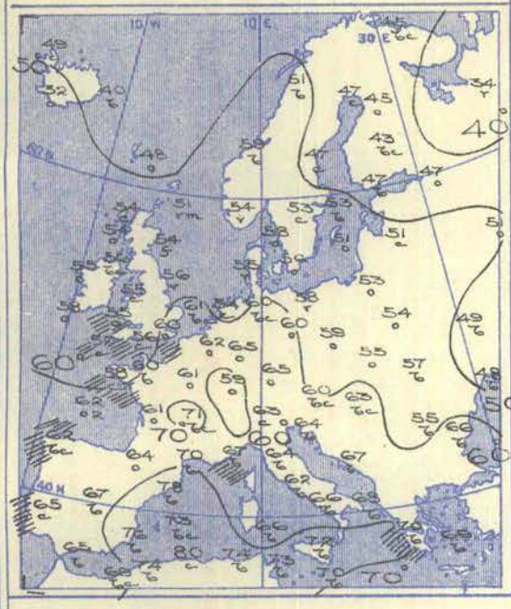
		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 22, p. 180	Lowestoft	0	46	60·6	53·4
No. 22, p. 180	Bath	—	—	62·3	55·2
Station Values.— Corrections.					
No. 18, p. 148 .. .	Guernsey..	—	34	—	—

		Temperature of the Sea. Highest.	Lowest	Mean.
Station Values.— Additions.				
No. 21, p. 172	Eastbourne	57	53	54·4

Sunday, 18th June, 1911.

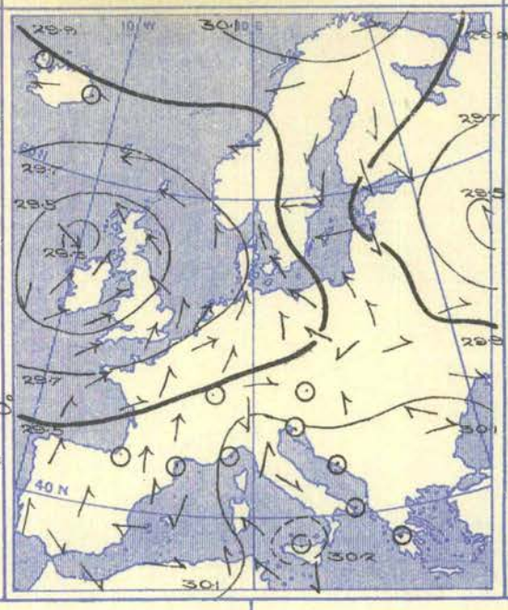
Temperature and Weather.

7 a.m.

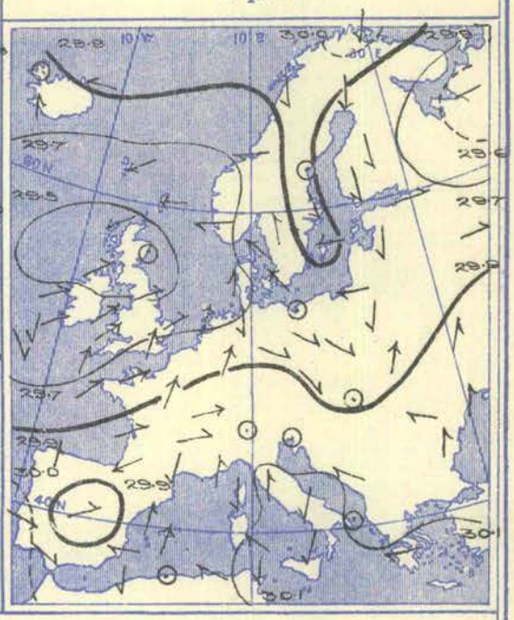


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in most parts of this country and the nearer countries of the Continent, with rain or passing showers in several places; overcast over a large area in central Europe and Russia, and rainy at Archangel. Fair to fine over the southern countries, and also in the north-west of Norway and in Iceland. Thunderstorms later in several parts of these Islands and France, as well as at Vienna, with heavy rain in some localities; more than an inch at Belfort and Besançon. An inch of rain falling at Vienna and smaller amounts in other parts of central Europe.

Temperature risen over Germany, Austria-Hungary, and the Netherlands, changed irregularly as a whole. Morning readings ranging from 80° at Algiers and above 70° at several other southern stations to a little above or below 60° over a very large area, to below 50° in Little Russia and over the north of the Continent; as low as 34° at Archangel. Rising to 70° during day in a few parts of England, and above 80° at many stations in the southern countries as high as 88° at Brindisi and 95° in Algeria.

Wind in morning generally cyclonic; South-Westerly to Southerly current fresh to strong in the south and east of England and also in Brittany. Little force elsewhere. Wind increasing in strength from between South and South-East in Holland and Denmark by evening, from the North-Eastward in the north of Sweden, and from the Eastward at Lerwick and Thorshavn.

Barometer in morning above 30·2 in. in Sicily and above 30·1 in. in a large area in the south-eastern quarter of Europe, as well as in the extreme north of Scandinavia. Below 29·5 in. in a large depression centred near Moscow, and below 29·3 in. in another minimum having its centre off the north-west of Ireland. Russian depression travelling quickly in a Northerly direction during day, but that on the Atlantic remaining almost stationary.

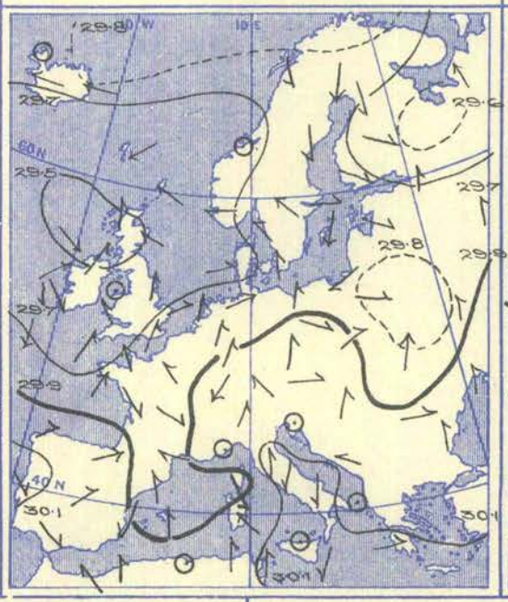
Monday, 19th June, 1911.

Temperature and Weather.

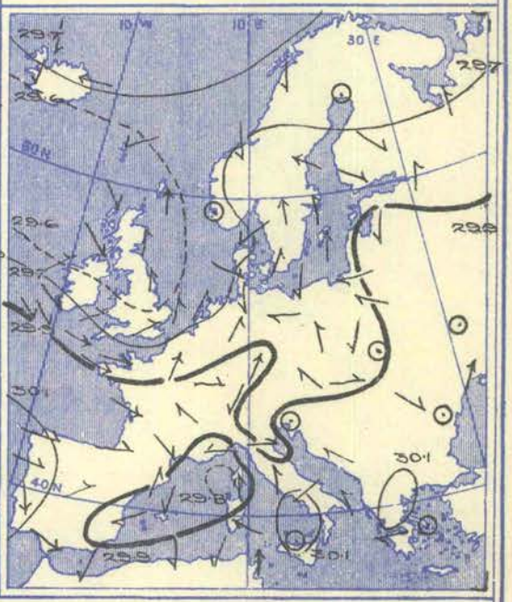
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable in the United Kingdom and its neighbourhood; cloudy or overcast in most places, with showers in a few localities. Overcast, with some rain, over a wide area in Poland and Russia. Fair to very bright in Southern Europe as well as in Scandinavia. Thunderstorms later in a few parts of these Islands and France, and rain very generally. Amount not large except locally. Considerable or heavy falls of rain occurring in the Netherlands and Switzerland; as much as 1·7 in. at Lugano.

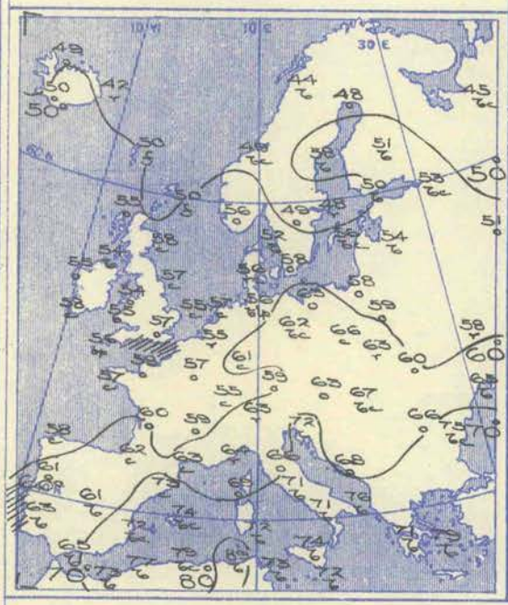
Temperature risen in most regions. Morning readings as high as 93° at Algiers and above 80° at some other southern stations; below 60° at nearly all our own stations and over the greater portion of the mainland of the Continent; below 50° in the north generally, and no higher than 37° at Vardö. Thermometer remaining below 65° in many parts of these Islands all day, but rising to above 70° in central Europe, and to above 80° at numerous places in the south of our area. Maximum 96° at Brindisi, and 102° at Cape de Garde.

Wind in morning showing several complete or partial cyclonic circulations, but of little force; South-Westerly current strong on the coast of Brittany, and that from North-East strong at Haparanda. Veering to West or North-West during day in Ireland and Wales, as well as in the north-west of France. Increasing to a fresh breeze from South-West in some parts of Germany, and to a strong breeze from South at Leghorn.

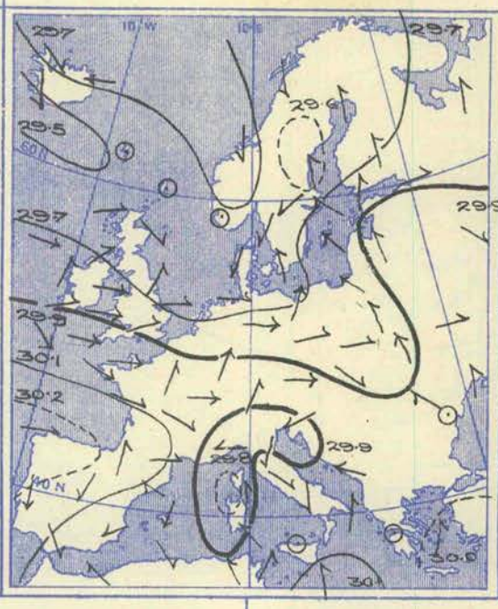
Barometer in morning below 29·5 in. in a large depression over the north-west of these Islands, and relatively low in a secondary over the Bristol and St. George's Channels. Depressions of considerable size but of little intensity existing over Finland and Poland. Secondary disturbance moving slowly Eastward over England during day, but main depression in the north-west maintaining the same position. Continental depressions travelling away or partially dispersing. A large anticyclone in the Azores region extending somewhat towards these Islands.

Tuesday, 20th June, 1911.

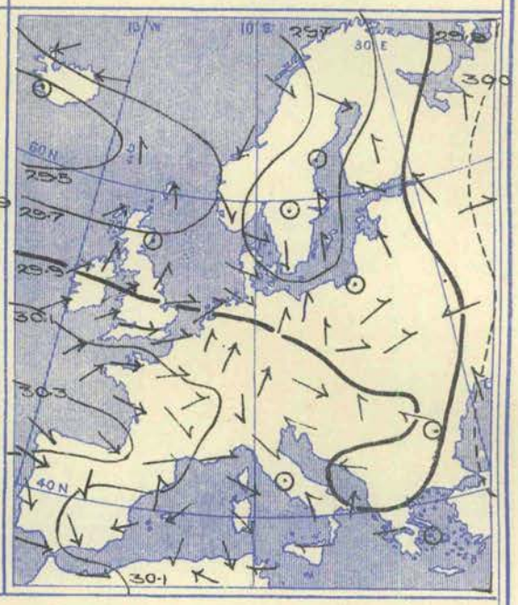
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled over the major portion of our area, with rain in several localities and a thunderstorm at Cuxhaven; mostly fair to very bright in the extreme south and also in the north of Norway and Russia. Rain later in many parts of these Islands, with thunderstorms in places. Moderate to rather heavy rain over a wide area on the Continent, more than an inch at Lugano. Thunderstorms occurring at some stations in Algeria.

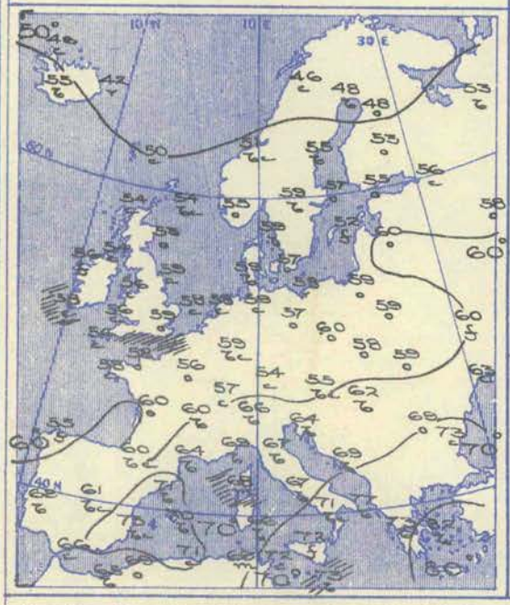
Temperature changed irregularly. Morning readings ranging from 89° at Cape de Garde, 79° at Athens, and above 70° at many other stations in the south to below 60° in nearly all parts of these Islands and the Netherlands, and to below 50° at some places in the north of the Continent. Maxima during day below 70° at nearly all our own stations; below 65° over a considerable portion of the Kingdom. Thermometer rising to above 80° at many places in the south of Europe, to 91° at Malaga, 95° at Bucharest, and 99° at Brindisi, thermometer touching 102° at Tunis.

Wind in morning varying much in direction, but circulating cyclonically generally. Westerly current blowing a fresh breeze over the south of England and the adjacent portion of the Continent, and also at Berlin, but little force as a whole. No general change later, but increasing to a high wind from the North-Eastward at Alicante.

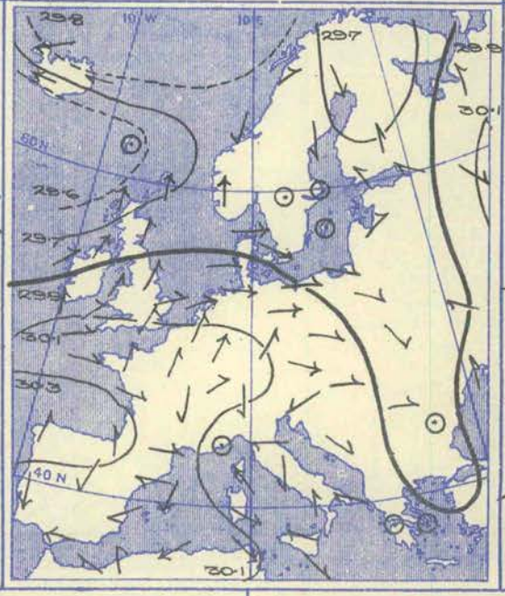
Barometer in morning showing three distinct depressions; one to the southward of France, another over Scandinavia, and a third off the north-west coasts of these Islands. Some ill-defined and smaller disturbances existing in other parts of our area. Pressure distribution undergoing little change during day, but Continental depressions moving slowly in an Easterly direction.

Wednesday, 21st June, 1911.

Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.

Weather in morning cloudy or overcast over these Islands and the nearer regions of the Continent, and also in central Europe, and rain falling at Bath and Swinemünde; fair to fine and bright elsewhere. Heavy rain later in the extreme north and north-west of the United Kingdom and more than an inch at Hermanstadt; moderate falls in Russia and Norway, and slight amounts in many parts of this country.

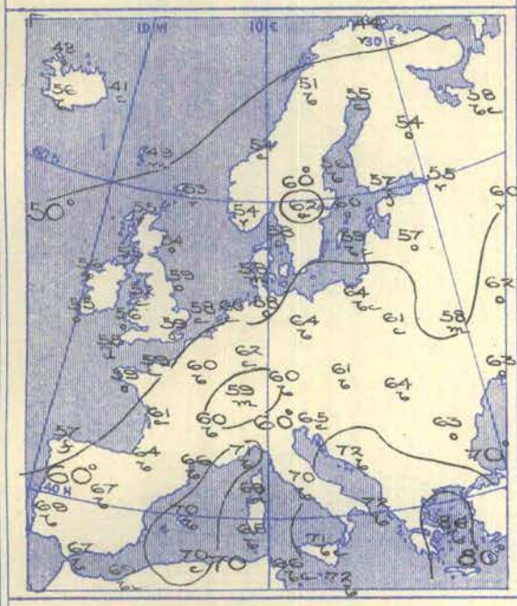
Temperature changed little as a whole, risen in Scandinavia and Denmark. Morning readings ranging from 82° at Athens, 77° at Brindisi, and above 70° at several other places in the far south to below 60° over the major portion of our area, and to below 50° in the north of Scandinavia. Maxima during day below 70° in these Islands generally and below 60° in the far north and north-west. Above 75° over a wide area on the Continent, above 80° in many southern regions, 88° at Bucharest, and 93° at Athens.

Wind in morning light to fresh from between West and South-West over these Islands, northern France, the Netherlands, and the Baltic, light and variable in Scandinavia, and light from the Eastward in Iceland. Light or moderate winds from various points prevailing over Russia and the south of our area generally, but a high wind from East reported at Gibraltar. Increasing greatly from the South-Westward by evening on our west and south-west coasts, and reaching a strong gale at Malin Head at night. Becoming stronger on some shores of the Mediterranean, and a high wind from East setting in at San Fernando.

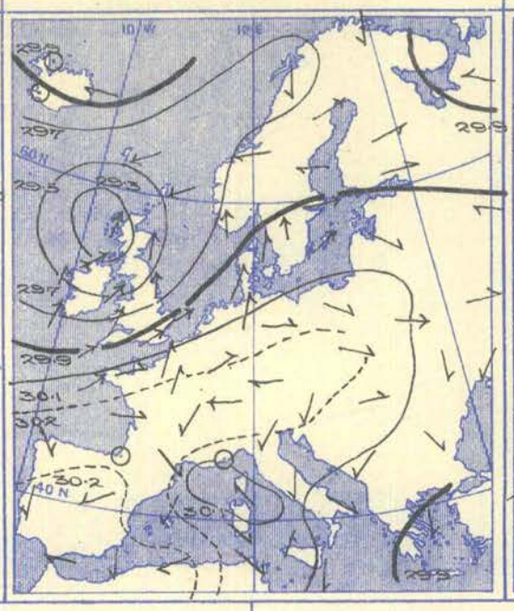
Barometer in morning above 30·3 in. in an anticyclone extending from the Azores to the south-west of France. Below 29·6 in. in the extreme north of Scandinavia and also in a depression between Scotland and Iceland; relatively low in a large elongated area stretching from northern Europe to Turkey. Pressure decreasing briskly during day in the west and south-west of these Islands, and gradient becoming rather steep. No great modification occurring in the general distribution over our area.

Thursday, 22nd June, 1911.

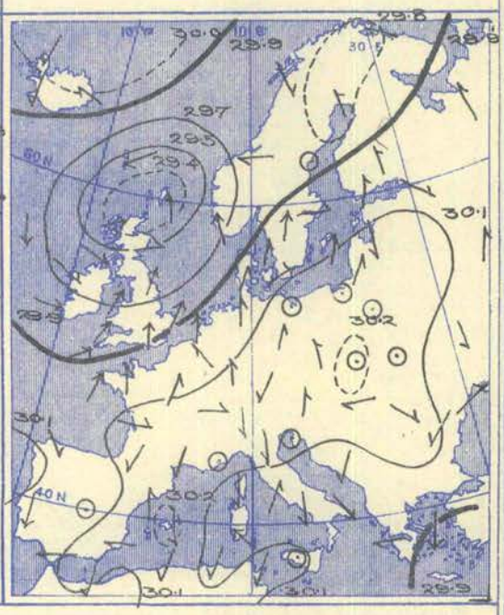
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or quite overcast in the United Kingdom, with rain or passing showers at Spurn Head, and at several stations in the west and north-west. Fair to bright over the major portion of the Continent, but rainy in some parts of Russia and the south of Norway. Heavy rain falling in some parts of Ireland later, and showers, generally slight, over nearly all parts of these Islands. More than an inch of rain at Moscow, 0·8 in. at Kieff, 0·55 in. at Nicolaieff, and smaller quantities in the Netherlands, Brittany, and Norway.

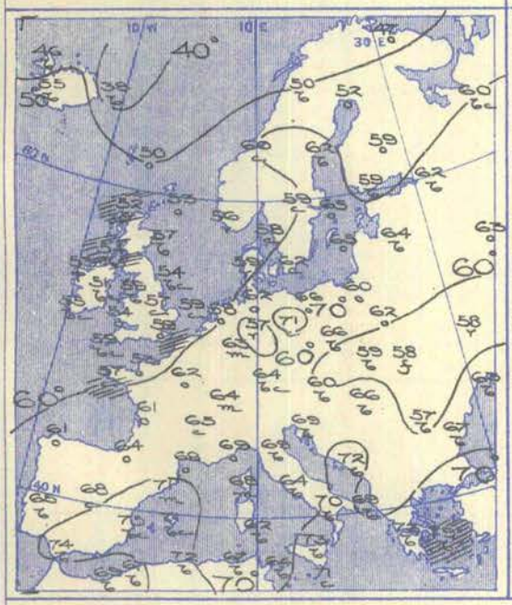
Temperature showing no general change. Morning readings about 60° in most parts of this country and over a very large area on the Continent, but below 50° in the far north of Norway. Above 70° at several places on the shores of the Mediterranean, and as high as 86° at Athens. Maxima during day generally low in these Islands; only 63° in London and 64° at Oxford. About 70° in the central countries, and above 80° at many stations in the south; 86° at Madrid and 91° at Athens.

Wind in morning blowing a strong gale from the South-Westward at Malin Head and a moderate to strong breeze from that point over Ireland and England generally, and also over the Channel and North Sea. Light or moderate winds, mainly from the Northward, prevailing over the Mediterranean region, and light, variable airs in Russia. Veering somewhat in these Islands during day, but continuing fresh to strong generally. No important change on the Continent.

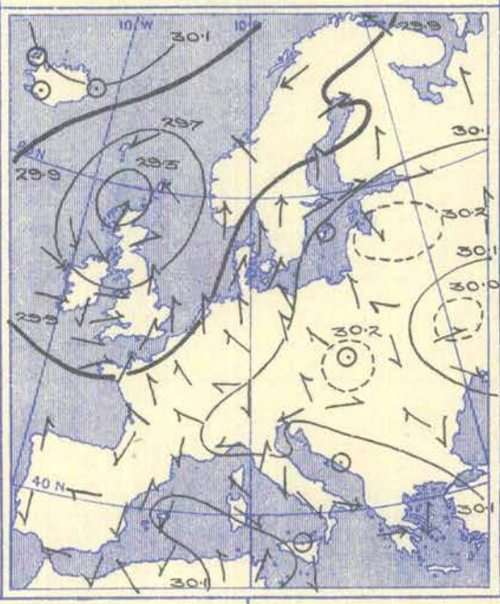
Barometer in morning above 30·2 in. in a large anticyclone extending from the Azores to Hungary. Below 29·8 in. in the north of Scandinavia, and below 29·4 in. in a well-marked depression centred off the north-west of Scotland. Scottish depression moving North-Eastward during day, and an ill-defined secondary disturbance moving Eastward over England. Some modification occurring in the form of the anticyclonic system owing to a fall of the barometer over the Bay of Biscay.

Friday, 23rd June, 1911.

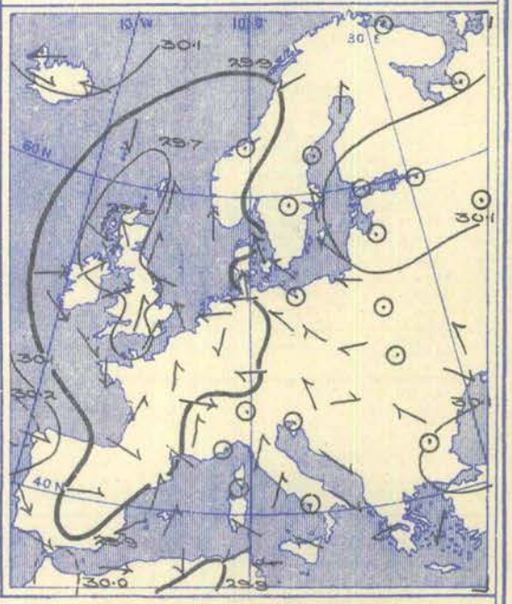
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to overcast in these Islands, with showers at Pembroke and Castlebay; mostly overcast, with rain in places, over the nearer regions of the Continent, and also in Little Russia, but generally fair to bright in other parts of our area. Rain falling during day in all parts of the British Islands except the north of Scotland, amounts over the eastern half of England and at the Channel stations, ranging from 0·8 in. to 1·2 in.

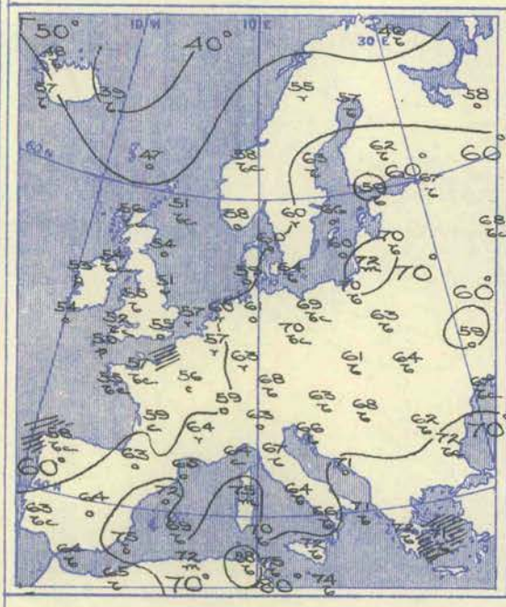
Temperature fallen in many parts of the United Kingdom, the north of France, and the Netherlands, risen over a large area in northern and central Europe. Morning readings 79° at Athens, and above 70° at several other stations in the south; about 60° in the north of Russia and nearly as high in many English localities, but only 51° at some Irish stations, and no higher than 47° in the north of Norway. Maxima during day 60° or below on many parts of our northern and western coasts, but about 65° over England generally; about 80° at the southern Continental stations and above 95° in Central Algeria; 108° at Laghout.

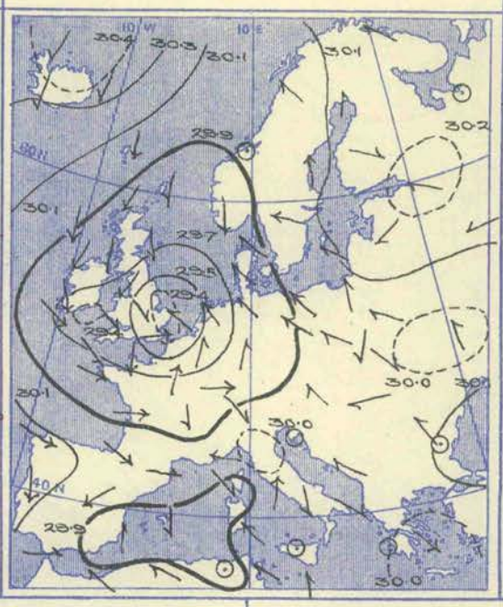
Wind in morning showing two cyclonic circulations, the chief being over the United Kingdom and its neighbourhood. Force light to moderate generally, but South-Westerly current strong at Stornoway, and that from South strong on the south-west coast of Norway. Light anticyclonic airs prevailing over a considerable portion of northern Russia and central Europe, and also on the Mediterranean. No important change during day.

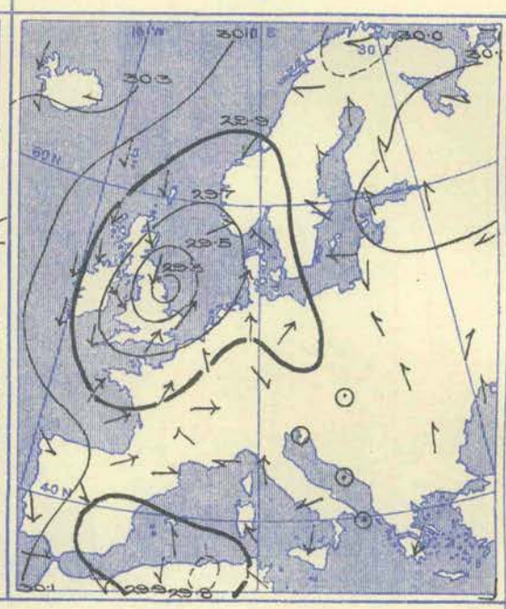
Barometer in morning below 29·5 in. in a depression having its centre off the north of Scotland, and below 30·0 in. in another disturbance over Little Russia. A secondary depression shown over the Bristol Channel. Barometer above 30·1 in. in an irregularly-shaped area extending from Central Russia to the Riviera and thence to the Black Sea, and also in Tunis and on the adjacent part of the Mediterranean. Pressure above 30·3 in. at the Azores, and 30·1 in. in the north of Iceland. No important change in the general distribution during day, but pressure very irregular over the United Kingdom.

Saturday, 24th June, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair at some stations on our northern and western coasts, but dull and rainy over nearly the whole of England and the south of Scotland, and also in many parts of France and Germany; fine and bright over the greater part of eastern and southern Europe and the Mediterranean. Rain falling during day over nearly the whole of our Islands and north-western Europe, the measurements in many places being very large, 0·9 in. at Lyons, 1 in. at Liverpool, between 1 in. and 1·3 in. on the north-east coast of Britain generally, and as much as 2·6 in. at Shields.

Temperature fallen over the British Islands generally and over France and Spain, risen a little over central, eastern and northern Europe. Morning readings ranging between 50° and 57° in these Islands, from 39° to 57° in Iceland, and from 46° at Vardö to 68° at Moscow and a little above 70° at some southern stations on the Continent. Maxima between 60° and 65° over the southern half of England during day, but below 60° in the north and west; exceeding 80° in some parts of central and southern Europe.

Wind in morning showing a cyclonic circulation over the greater part of north-western Europe, the Northerly and North-Westerly current on our western and south-western coasts being fresh or strong in force; variable over the Mediterranean region and Russia. Increasing considerably over our Islands during day, reaching the force of a fresh gale from South-West at Spurn Head and from North-West at Holyhead.

Barometer in morning highest 30·4 in. to 30·5 in. in the neighbourhood of the Azores, and relatively high, about 30·2 in. in northern Russia, and 30·1 in. over the Black Sea; lowest 29·4 in. to 29·8 in. in a depression covering the British Isles, the North Sea and the neighbouring Continental countries, the centre being shown over eastern England. Disturbance moving northward to the Yorkshire coast during day and increasing somewhat in depth; gradient steep over the British Islands.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	June 20th, 9 49 a.m. to 10.36 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	287·5° 75% 280°, 7	286° 75% 280°, 10	283·5° 85% 280°, 10	281° 100% 280°, 10				280·5° 100% 280°, 10 } 1,050	Clouds at 1,000 m. Convection currents, Temperature, etc., all very variable.
2	June 21st, 9.50 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288° 70% 235°, 6	287·5° 70% 235°, 9	284·5° 85% 235°, 11	281° 100% 235°, 11				280·5° 100% 235°, 11 } 1,100	Overcast. Clouds at 900 m. Wind very variable.
3	June 24th, 10.7 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	285° 80% 270°, 8	284° 86% 270°, 12	282·5° 90% 285°, 15	278° 90% 290°, 16				278·5° 90% 295°, 17 } 1,300	
4	June 24th, 10.30 a.m. to 11.55 a.m.	Brighton, 115 m.	Temperature .. Humidity .. Wind	287° 84% 250°, 14	285·7° 84% 240°, 17	282·5° 84% 250°, 15					}	Quarter overcast Fr. Cu. No clouds reached.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites	1	1	1	1
Area of Surface (sq. ft.)	7	7	6	4·5
Capacity of Balloon (cub. ft.) ..	—	—	—	—
Length of Wire (feet)	1,300	1,400	1,500	900

South Kensington, London, S.W. *June 28th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 26. TWENTY-SIXTH WEEK, SUNDAY, JUNE 25TH, TO SATURDAY, JULY 1ST, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally unsettled, with rain in all districts, particularly at the beginning and the end of the period. Thunder was heard at Wick on June 26th and 29th, and at Aberdeen on July 1st, while lightning was seen at Valencia on the latter date.

Temperature was below the normal in all districts, the deficit ranging from about 2° in England N.E. and E. to nearly 4½° in Scotland W. The highest of the maxima occurred on June 28th, and varied from 72° or 73° over the greater part of England to 64° in the English Channel, and to 61° in Scotland N. The maxima on some days were unusually low, below 55° in many instances, 48° at Glencarron on June 26th, and 47° at Douglas on July 1st. The lowest of the minima occurred on June 27th, 39° in Scotland E. (at West Linton), and 37° in Scotland W. (at Kilmarnock). Grass minima of 34° to 37° were recorded at many stations on the morning of the 27th, when the lowest reading, 27°, occurred at Llangammarch Wells.

Mean Temperature of the Sea did not differ much from the value for the corresponding week of last year in the north and east, but the water was from 2° to 4° colder at several western and south-western stations.

Rainfall was variable, from a deficiency of 0·3 in. in Ireland S. to an excess of 0·3 in. in Scotland N. There were very few falls of more than 0·5 in. in a day, but on June 28th Glencarron had 0·8 in., and on the 29th Newquay 0·8 in. and Arlington 1·5 in.

Bright Sunshine was less than the normal in all parts of the United Kingdom. The percentage of the possible duration ranged from 18 in Scotland N., 19 in England N.W., and 21 in Ireland S. to 29 in England N.E. and S.W., and to 33 in the English Channel.

Barometer and Wind. The deep depression which arrived over southern England at the end of the preceding week passed northward and north-eastward at the beginning of this period, and produced strong winds over the United Kingdom generally, a strong gale from North-West and North at Malin Head on Sunday and Monday. The departure of the disturbance to Scandinavia was followed by a general increase of pressure, and by Wednesday and Thursday, when the Atlantic high pressure system had spread eastward to central Europe, the barometer was as high as 30·4 in. over France and Germany. The high pressure subsequently receded, and disturbances from the Icelandic region caused a fall of the barometer over the United Kingdom generally.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 196.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Very deficient
	Rainfall ...	Heavy	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 4 weeks from June 4th, 1911.	Warmth ...	1 * 2	1 * 2	2 * 2	2 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 1	1 * 1
	Rainfall ...	2 * 2	1 * 1	1 * 1	2 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	1 * 1	2 * 2	2 * 0
	Sunshine ...	1 * 1	2 * 2	1 * 2	1 * 2	1 * 2	1 * 2	1 * 2	2 * 2	2 * 2	2 * 2	1 * 2	2 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
TWENTY-SIXTH WEEK—June 25th to July 1st, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	61	41	55·8	46·7	50·9	− 3·4	62	− 24	0	0	6	+ 2	1·05	+0·32	23	− 10	18	− 8
Eastern																		
1. SCOTLAND, EAST	65	39	59·8	46·5	52·7	− 3·3	75	− 23	0	0	5	+ 2	0·45	−0·10	29	− 13	24	−11
2. ENGLAND, N.E.	73	44	62·8	49·9	55·9	− 1·7	97	− 12	0	0	3	+ 1	0·37	−0·07	34	− 12	29	−10
3. ENGLAND, EAST	73	47	64·4	51·7	57·6	− 2·0	109	− 14	0	0	4	+ 2	0·43	+0·06	30	− 22	25	−19
4. MIDLAND COUNTIES	73	41	62·7	50·1	55·9	− 3·3	97	− 24	0	0	5	+ 2	0·42	−0·06	29	− 17	25	−15
5. ENGLAND, S.E.	72	43	63·3	51·9	57·2	− 3·0	106	− 21	0	0	4	+ 1	0·37	0·00	32	− 20	28	−18
Western																		
6. SCOTLAND, WEST	63	37	58·4	47·4	52·5	− 4·4	74	− 30	0	0	5	+ 2	0·45	−0·27	33	− 9	28	− 8
7. ENGLAND, N.W.	66	42	59·7	49·7	54·4	− 3·8	87	− 27	0	0	6	+ 2	0·63	+0·04	22	− 22	19	−19
8. ENGLAND, S.W.	69	38	61·1	50·9	55·7	− 3·1	96	− 22	0	0	4	+ 2	0·65	+0·14	34	− 15	29	−13
9 IRELAND, NORTH	67	40	58·9	48·5	53·4	− 3·7	80	− 26	0	0	5	+ 1	0·38	−0·26	28	− 7	24	− 6
10. IRELAND, SOUTH	70	42	62·1	50·6	55·9	− 2·6	97	− 18	0	0	4	+ 1	0·26	−0·34	25	− 15	21	−13
11. ENGLISH CHANNEL	64	47	61·1	52·2	56·3	− 3·5	100	− 24	0	0	4	+ 1	0·44	+0·04	37	− 22	33	−20
THE SEASON (Summer).—Aggregates, &c., for the Period of 4 Weeks, June 4th to July 1st, 1911.																		
0. SCOTLAND, NORTH	73	35	*	*	*	*	282	− 24	0	− 2	15	0	2·89	+0·29	143	− 2	29	0
Eastern																		
1. SCOTLAND, EAST	81	28	*	*	*	*	327	− 16	5	+ 4	14	+ 2	2·75	+0·71	181	+13	37	+ 3
2. ENGLAND, N.E.	84	32	*	*	*	*	391	+ 17	0	0	13	+ 2	3·91	+2·20	185	+ 9	39	+ 2
3. ENGLAND, EAST	83	34	*	*	*	*	438	+ 12	0	0	13	+ 2	2·51	+0·65	189	− 3	41	− 1
4. MIDLAND COUNTIES	83	32	*	*	*	*	420	− 4	0	0	13	+ 2	2·13	+0·23	175	+ 1	38	0
5. ENGLAND, S.E.	83	32	*	*	*	*	445	− 6	0	0	11	0	1·94	+0·20	207	+10	46	+ 2
Western																		
6. SCOTLAND, WEST	80	31	*	*	*	*	346	− 31	0	0	14	+ 1	2·60	−0·06	196	+18	41	+ 4
7. ENGLAND, N.W.	82	34	*	*	*	*	386	− 18	0	0	15	+ 2	3·04	+0·96	192	+ 8	41	+ 2
8. ENGLAND, S.W.	82	30	*	*	*	*	428	+ 2	0	0	14	+ 2	2·51	+0·42	208	+15	46	+ 3
9. IRELAND, NORTH	79	31	*	*	*	*	345	− 31	0	0	13	− 2	1·95	−0·51	174	+17	37	+ 4
10. IRELAND, SOUTH	82	36	*	*	*	*	418	0	0	0	14	+ 1	2·08	−0·26	176	+ 4	38	+ 1
11. ENGLISH CHANNEL	79	46	*	*	*	*	456	+ 8	0	0	13	0	2·86	+1·20	224	− 4	50	− 1
THE YEAR.—Aggregates, &c., for the Period of 26 Weeks, January 1st to July 1st, 1911.																		
0. SCOTLAND, NORTH	83	14	*	*	*	*	827	+ 73	415	−142	106	−13	24·02	+0·58	683	+ 44	30	+ 2
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	916	+ 42	492	−128	96	0	12·28	−1·02	779	+ 43	34	+ 2
2. ENGLAND, N.E.	84	19	*	*	*	*	1076	+150	371	−104	82	− 6	10·18	−0·01	760	− 18	33	− 1
3. ENGLAND, EAST	83	16	*	*	*	*	1213	+ 96	409	−112	87	+ 1	10·33	+0·15	842	+ 15	37	+ 1
4. MIDLAND COUNTIES	83	14	*	*	*	*	1211	+ 68	415	−118	73	−12	8·31	−3·30	721	− 20	32	− 1
5. ENGLAND, S.E.	83	16	*	*	*	*	1232	+ 14	361	− 20	75	− 7	9·97	−1·38	875	+ 48	39	+ 2
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	1081	+112	347	− 78	91	−11	18·93	−1·55	803	+ 52	35	+ 2
7. ENGLAND, N.W.	83	17	*	*	*	*	1131	+103	314	− 72	82	−12	13·43	−0·94	818	+ 63	36	+ 3
8. ENGLAND, S.W.	82	13	*	*	*	*	1205	+ 14	297	− 4	83	− 9	13·97	−2·20	874	+ 44	39	+ 2
9. IRELAND, NORTH	79	18	*	*	*	*	1075	+ 39	302	− 43	88	−22	12·45	−3·97	802	+ 84	35	+ 4
10. IRELAND, SOUTH	82	18	*	*	*	*	1314	+ 77	295	+ 36	98	− 1	13·97	−3·89	819	+ 25	36	+ 1
11. ENGLISH CHANNEL	79	28	*	*	*	*	1386	+ 19	135	+ 26	89	−11	11·70	−1·88	972	− 20	43	− 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values' shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	57	26th	45	30th, 1st	53·9	47·0	50·2	—	57	0	7	0·94	—	6·6	—	5	—	Baltasound.
	a Lerwick	56	25th	45	28th, 1st	53·7	47·6	50·4	− 0·2	59	0	6	1·23	—	15·0	− 19·2	12	− 15	Deerness.
	a Stornoway	57	27th, 28th	44	26th	55·1	46·9	50·7	− 2·3	61	0	6	0·81	+ 0·22	17·0	− 24·5	14	− 20	Stornoway.
	a Castlebay, Barra Isd.	56	27, 28, 29th	46	26th, 27th	54·6	48·1	51·1	− 4·6	64	0	6	0·43	—	25·2	—	21	—	Castlebay.
	a Wick	59	29th	43	1st	55·1	47·0	50·8	− 1·9	62	0	6	0·82	+ 0·32	*	*	*	*	* *
	p Strathpeffer.. ..	61	27th	45	26, 27, 1st	58·2	47·3	52·4	− 2·3	73	0	6	0·23	− 0·27	34·2	− 1·1	28	− 1	Strathpeffer.
	b, Mainland. p Glencarron .. S	55	29th, 1st	42	27th	52·9	45·3	48·8	− 4·6	48	0	7	2·96	+ 1·93	*	*	*	*	* *
	p Fort Augustus S	61	30th	41	27th	57·9	45·7	51·4	− 3·3	66	0	6	0·37	− 0·15	17·0	− 12·7	14	− 10	Fort Augustus.
	p Fort William S	61	30th	42	27th	57·8	46·9	52·0	− 3·8	70	0	6	0·93	− 0·01	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	62	27th	44	26th, 27th	58·6	46·2	52·0	− 3·5	70	0	6	0·92	+ 0·38	24·5	—	20	—	Gordon Castle.
	a Nairn	62	29th	44	27th, 1st	58·3	47·0	52·3	− 2·7	72	0	6	0·88	+ 0·44	21·3	—	17	—	Nairn.
	a Aberdeen	65	28th	46	27th	59·8	48·3	53·6	− 1·1	81	0	7	0·38	− 0·12	27·3	− 14·5	22	− 12	Aberdeen.
	a Balmoral .. S	63	30th	42	26th	58·9	46·3	52·2	− 1·0	71	0	3	0·54	+ 0·04	22·7	—	19	—	Crathes S.
	p Crieff .. .. S	65	30th	42	27th	61·4	46·3	53·3	− 3·3	79	0	2	0·02	− 0·64	33·6	—	28	—	Balruddery.
	a Leith .. .. .. S	63	28th, 30th	44	27th	61·4	48·9	54·7	− 2·0	89	0	4	0·11	− 0·38	*	*	*	*	* *
	p West Linton.. S	?65	1st	39	27th	?60·0	43·8	?51·3	− 2·8	65	0	5	0·33	—	—	—	—	—	West Linton.
	p Marchmont .. S	64	29th	41	27th	60·3	45·1	52·2	− 2·4	71	0	3	0·39	+ 0·19	39·8	− 2·8	33	− 2	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	66	28th	47	27th	62·3	48·4	54·9	− 0·5	90	0	2	0·49	− 0·01	39·8	—	33	—	Cockle Park.
	a Shields	66	28, 29, 30th	44	27th	62·6	47·3	54·4	− 1·3	87	0	4	0·42	− 0·07	32·5	− 0·6	27	− 1	Newcastle.
	p Durham	68	27th	45	26th, 27th	62·0	48·5	54·8	− 1·7	90	0	3	0·30	− 0·18	39·6	− 0·5	33	0	Durham.
	p Rounton .. M	67	28th	46	26th	61·8	48·9	54·9	− 1·0	90	0	3	0·45	− 0·03	*	*	*	*	* *
	p Scarborough.. M	67	28th	48	26th	63·0	50·9	56·5	− 0·1	102	0	5	0·72	+ 0·28	19·3	—	16	—	Scarborough.
	p York	73	28th	48	26th	63·4	50·9	56·7	− 1·6	103	0	3	0·39	− 0·12	27·6	− 13·5	23	− 11	York.
	b, South. p Spurn Head ..	68	29th	50	26th, 27th	62·7	52·1	57·0	+ 0·2	105	0	5	0·28	− 0·07	*	*	*	*	* *
	a Lincoln	70	28th	49	25th, 27th	64·0	50·8	56·9	− 2·4	104	0	2	0·03	− 0·43	33·1	—	28	—	Skegness.
	a Fulbeck	69	28th	48	27th	63·7	51·0	56·9	− 1·8	104	0	4	0·27	− 0·20	42·3	—	36	—	Rauceby.
															32·4	—	28	—	Lowestoft.
	p Cromer	71	28th, 29th	48	25th, 26th	64·1	50·9	57·2	− 0·4	106	0	7	0·40	—	33·1	—	28	—	Cromer.
	p Hillington .. M	71	28th	48	28th	64·5	50·8	57·2	− 1·2	106	0	5	0·32	− 0·24	27·9	− 18·0	24	− 16	Hillington.
3. ENGLAND, E. — a, North.	a Yarmouth	73	28th	49	27th	64·3	52·6	58·0	+ 0·3	112	0	2	0·33	− 0·14	21·4	—	18	—	Yarmouth.
	a Norwich	72	28th	49	27th	63·8	51·6	57·3	− 0·8	107	0	4	0·57	—	*	*	*	*	* *
	p Geldeston	72	28th	49	27th	65·0	51·8	57·9	− 0·2	111	0	3	0·42	− 0·02	29·2	− 18·7	25	− 16	Geldeston.
	p Cambridge	72	28th	48	27th, 28th	64·2	51·3	57·3	− 2·3	107	0	5	0·68	+ 0·19	33·2	− 13·3	29	− 12	Cambridge.
	b, South. a Felixstowe	71	28th	49	27th	64·3	53·3	58·4	− 0·3	115	0	3	0·27	—	37·0	—	32	—	Felixstowe.
	a Clacton-on-Sea ..	73	28th	49	27th	64·7	53·0	58·4	− 0·3	115	0	3	0·29	—	35·0	—	30	—	Clacton.
	a Rothamsted ..	71	28th	47	27th	62·6	50·7	56·2	− 2·2	99	0	5	0·43	− 0·08	25·5	− 20·2	22	− 18	Rothamsted.
	a Shoeburyness ..	72	28th	49	27th	64·9	53·6	58·9	− 1·8	118	0	3	0·22	− 0·16	35·3	—	31	—	Southend.
	p Tottenham	73	28th	50	27th	65·8	52·3	58·6	− 1·4	116	0	5	0·47	+ 0·10	30·3	—	26	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	63	27th, 28th	46	26th	59·9	48·6	53·9	− 2·5	83	0	5	0·60	+ 0·06	31·1	—	26	—	Harrogate.
	a Bawtry	66	27th, 28th	49	27th	62·3	51·1	56·3	− 2·4	100	0	2	0·14	− 0·31	29·3	− 9·2	25	− 8	Worksop.
	p Buxton .. M										0				—	—	—	—	Buxton.
	a Nottingham ..	68	28th, 29th	46	27th	63·1	50·6	56·4	− 2·2	101	0	6	0·41	− 0·07	30·1	—	26	—	Nottingham.
	p Birmingham, Edgbn	67	27th, 28th	47	26th, 27th	61·5	49·7	55·2	− 2·5	92	0	4	0·34	− 0·16	20·9	—	18	—	Birmingham.
	a Ramds .. M	73	28th	47	27th	65·3	50·7	57·5	− 1·7	109	0	3	0·24	—	*	*	*	*	* *
	a Oxford	71	28th	49	27th	63·6	51·7	57·2	− 2·2	106	0	5	0·46	− 0·07	22·3	− 23·3	19	− 20	Oxford.
	b, West. a Cheadle .. M	67	28th	45	26th, 27th	60·3	48·4	53·9	− 2·7	83	0	7	0·80	+ 0·20	38·9	—	33	—	Sheffield.
	p Shrewsbury	69	27th, 28th	47	26th, 27th	63·1	49·9	56·0	− 2·2	98	0	6	0·17	—	*	*	*	*	* *
	a Hereford .. M	70	28th	41	27th	63·9	49·3	56·1	− 2·8	99	0	4	0·16	− 0·34	*	*	*	*	* *
	a Cirencester	69	29th	42	27th	63·1	49·1	55·6	− 2·0	95	0	5	0·40	− 0·15	25·8	− 19·2	22	− 17	Cirencester.
	a Bath	68	28th, 29th	42	27th	63·1	52·0	57·2	− 1·9	106	0	4	0·89	+ 0·35	35·3	—	31	—	Bath.
															37·7	—	33	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	72	28th	50	26th, 27th	64·4	53·5	58·6	− 1·0	116	0	4	0·52	+ 0·02	27·2	− 18·3	24	− 16	Kew.
	a Marlborough ..	71	28th	43	27th	64·0	50·4	56·7	− 1·2	103	0	4	0·38	− 0·20	28·6	− 13·4	25	− 12	Marlborough.
	a Margate	71	28th	50	26th, 27th	64·9	52·3	58·2	− 1·2	113	0	2	0·19	− 0·24	31·3	− 11·9	27	− 10	Margate.
	a Wisley, Surrey ..	72	28th	49	27th	64·1	52·4	57·8	− 2·8	111	0	5	0·36	—	32·0	—	28	—	Wisley.
	a Swarraton .. M	70	28th	46	27th	62·5	51·3	56·5	− 1·5	102	0	4	0·32	− 0·19	37·1	—	33	—	Worthing.
	a Tunbridge Wells M	71	28th	46	27th	63·4	49·8	56·1	− 2·5	99	0	4	0·41	− 0·09	28·2	− 18·6	25	− 16	Tunbridge Wells.
	a Dungeness	65	27th	48	27th	61·9	52·7	57·0	− 1·5	105	0	4	0·39	+ 0·02	25·4	—	22	—	Littlestone.
	p Hastings	64	1st	47	26th, 27th	61·0	51·6	56·0	− 3·0	98	0	4	0·43	− 0·03	25·4	− 23·0	22	− 25	Hastings.
	p Southampton ..	71	28th	48	27th	64·7	51·9	57·9	− 3·0	111	0	4	0·31	− 0·18	35·8	− 13·4	31	− 12	Southampton.
	a Ventnor	65	28th, 1st	50	27th	62·5	53·3	57·6	− 2·5	109	0	4	0·43	− 0·03	40·0	− 5·7	35	− 5	Ventnor.
															34·9	− 17·6	31	− 16	Eastbourne.
LONDON .. — ..	a Westminster ..	72	28th	50	27th	64·7	53·9	58·9	− 1·4	118	0	3	0·52	+ 0·02	26·6	− 13·3	23	− 12	Westminster.
	a Greenwich	76	28th	48	27th	66·9	52·7	59·3	− 1·7	121	0	4	0·50	+ 0·02	28·8	− 19·6	25	− 17	Greenwich.
6. a, SCOTLAND. W. ..	a Poltalloch .. S	60	28th	42	27th	55·3	47·0	50·9	− 5·7	62	0	6	0·53	− 0·23	*	*	*	*	* *
	p Glasgow	59	28, 30, 1st	43	27th	58·2	48·3	52·9	− 3·2	76	0	4	0·08	− 0·55	34·6	− 2·3	29	− 2	Glasgow.
	p Rothesay .. S	61	28, 29, 30, 1	44	27th	59·3	48·1	53·3	− 3·5	79	0	6	0·28	− 0·48	*	*	*	*	* *
	a Kilmarnock	62	1st	37	27th	58·7	46·7	52·3	− 4·4	72	0	5	0·43	—	31·1	—	26	—	Kilmarnock.
	a Colmonell .. S	61	28th	45	27th	57·9	48·1	52·7	− 3·6	75	0	6	0·58	− 0·03	*	*	*	*	* *
	p Dumfries .. S	62	27, 28, 29, 1	41	27th	60·7	48·1	54·0	− 3·5	84	0	5	0·34	− 0·24	36·9	—	31	—	Dumfries.
	p Cally, Gatehouse S	62	27, 28, 29, 30	39	27th	61·2	45·6	52·9	− 3·8	76	0	5	0·67	− 0·04	*	*	*	*	* *
	b, ISLE OF MAN .. p Douglas	63	28th	44	26th	55·6	47·4	51·2	− 4·9	64	0	5	0·69	+ 0·07	31·3	− 18·5	27	− 16	Douglas.
															—	—	—	—	Hoylake.
7. a, ENGLAND, N.W. ..	p Aspatria	64	28th	42	27th	60·1	47·6	53·4	− 2·5	80	0	6	0·80	+ 0·16	26·7	—	22	—	Aspatria.
	p Newton Rigg ..	63	28th	44	27th	60·5	47·0	53·3	− 2·1	79	0	5	0·41	− 0·12	29·7	− 16·9	25	− 14	Newton Rigg.
	p Stonyhurst	61	28th, 29th	48	26th	58·1	50·1	53·8	− 3·8	83	0	7	1·42	+ 0·68	14·6	− 30·0	12	− 25	Stonyhurst.
	p Blackpool .. M	62	29th	48	26th	59·0	51·1	54·8	− 2·8	90	0	6	0·43	− 0·10	25·2	− 20·1	21	− 17	Blackpool.
	p M'nch'ster, Prestwich	65	29th	47	26th	60·5	50·2	55·0	− 2·4	91	0	6	0·89	+ 0·23	12·6	− 26·2	11	− 22	Prestwich.
	a Liverpool (Bidston)	64	29th	46	26th	59·1	49·9	54·2	− 4·1	85	0	6	0·58	+ 0·03	24·2	—	21	—	Liverpool.
	a Hawarden Bridge ..	66	28th, 29th	48	26th, 27th	60·9	50·9	55·6	− 2·9	95	0	6	0·53	+ 0·07	21·9	− 25·1	19	− 21	Southport.
															24·8	—	21	—	Rhyl.
	b, NORTH WALES .. p Llandudno .. M	65	29th	48	26th	60·9	50·9	55·6	− 2·6	95	0	6	1·33	− 0·14	22·0	− 24·2	19	− 21	Llandudno.
	a Holyhead	62	1st	46	26th, 27th	59·1	49·2	54·2	− 2·5	85	0	4	0·28	− 0·24	19·4	—	17	—	Aberdovey.
	p Bettws-y-Coed ..	64	28th	42	27th	59·1	49·3	53·9	− 4·0	83	0	6	0·61	—	17·0	—	15	—	Bettws-y-Coed.
															21·9	—	19	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	67	27th	38	27th	60·0	46·7	52·9	− 3·9	76	0	5	0·60	—	25·3	—	22	—	Llangammarch Wells.
	a Pembroke	61	25th	48	26th, 27th	58·9	50·9	54·6	− 2·1	88	0	3	0·45	− 0·05	31·8	− 19·7	28	− 17	Pembroke.
	p Cardiff	64	27th, 28th	43	27th	60·8	49·9	55·0	− 4·4	91	0	4	0·68	+ 0·06	32·4	—	28	—	Cardiff.
															30·6	− 22·0	27	− 19	Tenby.
	b, ENGLAND, S.W. .. a Clifton	67	29th	45	27th	62·4	51·8	56·7	− 2·9	103	0	5	0·69	+ 0·11	32·5	—	28	—	Clifton.
	a Shaftesbury .. M	68	28th	44	27th	61·2	48·9	54·6	− 3·1	88	0	3	0·66	+ 0·10	*	*	*	*	* *
	a Arlington	63	28th	44	27th	59·9	49·4	54·3	− 2·0	86	0	4	1·86	+ 1·08	41·2	− 8·8	37	− 8	Newquay.
	a Cullompton .. M	69	28th	44	27th	65·1	52·0	58·1	− 0·4	113	0	3	0·39	− 0·15	33·2	− 11·6	29	− 10	Cullompton.
	a Portland Bill ..	60	28th, 1st	52	25th, 26th	58·3	53·6	55·8	− 2·1	97	0	2	0·14	—	43·5	—	39	—	Weymouth.
	p Plymouth	69	27th	49	27th	62·8	52·8	57·5	− 2·1	109	0	4	0·55	+ 0·01	35·5	− 12·5	31	− 11	Plymouth.
	p Falmouth	65	28th	51	26th, 27th	61·6	53·0	57·0	− 1·5	105	0	3	0·50	+ 0·06	45·6	− 6·1	40	− 5	Falmouth.
															42·4	—	38	—	Salcombe.
															42·4	− 11·2	37	− 10	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	59	28th	46	26th, 27th	55·6	48·6	51·9	− 2·9	69	0	5	0·28	− 0·27	*	*	*	*	* *
	a Blacksod Point ..	60	28th	46	25th	57·4	48·9	52·9	− 3·5	76	0	6	0·54	− 0·09	*	*	*	*	* *
	p Markree Castle ..	64	28th	43	27th	58·6	47·2	52·5	− 3·1	74	0	7	0·45	− 0·25	27·8	− 8·7	24	− 7	Markree Castle.
	a Birr Castle	66	27th	43	27th	61·0	49·1	54·6	− 2·6	88	0	6	0·27	− 0·30	22·5	− 15·1	19	− 13	Birr Castle.
	b, East. p Armagh	67	27th	40	27th	60·9	47·3	53·6	− 2·8	81	0	5	0·37	− 0·23	28·7	− 9·8	24	− 8	Armagh.
	a Donaghadee	65	27, 28, 29th	48	26, 27, 28th	60·1	50·0	54·7	− 1·3	89	0	3	0·34	− 0·22	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	69	27th	46	27th	63·8	50·4	56·6	− 2·6	102	0	3	0·12	− 0·36	29·9	− 14·6	26	− 12	Phœnix Park.
	a Kilkenny	69	27th, 28th	46	27th	64·1	49·9	56·5	− 1·7	102	0	3	0·14	− 0·43	*	*	*	*	* *
	a Waterford	69	27th	42	25th	64·1	49·9	56·5	− 1·9	102	0	2	0·20	− 0·47	*	*	*	*	* *
	a Birr Castle	66	27th	43	27th	61·0	49·1	54·6	− 2·6	88	0	6	0·27	− 0·30	22·5	− 15·1	19	− 13	Birr Castle.
	b, West. a Foynes	61	27th	48	25th, 26th	58·8	50·3	54·3	− 3·7	86	0	7	0·54	− 0·04	*	*	*	*	* *
	a Cahir .. .. M	67	27th, 28th	46	25th	64·4	49·6	56·5	− 1·3	102	0	4	0·17	—	*	*	*	*	* *
	a Killarney	70	27th	47	25th	62·6	51·8	56·8	− 0·6	104	0	7	0·29	− 0·39	*	*	*	*	* *
	a Valencia	60	27th, 28th	47	25th	58·4	51·7	54·8	− 2·7	90	0	6	0·56	− 0·21	14·6	− 27·7	13	− 24	Valencia.
	a Roche's Point ..	67	27th	49	25th, 26th	61·9	52·6	56·9	− 0·8	104	0	2	0·07	+ 0·57	31·0	—	27	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	64	27th	47	25th	61·0	50·1	55·2	− 3·7	92	0	1	0·26	− 0·19	30·0	− 25·8	27	− 23	Scilly.
	a Jersey, St. Aubins ..	63	29th	51	27th	61·0	53·9	57·2	− 2·8	106	0	5	0·59	+ 0·10	40·9	− 15·6	37	− 14	St. Heliers.
	a Guernsey	64	27th	49	27th	61·4	52·5	56·6	− 2·9	102	0	5	0·46	− 0·03	39·5	− 17·6	35	− 16	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 31·5 hrs. (− 20·3 hrs.), 28 % (− 18 %); Bournemouth. 37·4 hrs.. 33 %; Bognor, hrs., %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	53·4	—
	— —				
	— —				
1.	Aberdeen	—	—	—	52·0
	Crathes	0	37	55·3	53·2
	Balmoral	0	39	—	—
	West Linton	—	—	—	—
	Marchmont	0	37	53·6	—
2.	Cockle Park	0	39	53·7	53·4
	Durham	0	43	—	—
	York	—	—	57·4	54·9
	Hull	0	46	57·4	53·0
	Lincoln	—	—	57·2	55·0
	Rauceby	0	46	60·4	60·4
3.	Norwich	0	47	—	—
	Yarmouth	—	—	60·1	58·6
	Lowestoft	0	46	60·3	56·5
	Cambridge	0	42	60·4	57·4
	Clacton-on-Sea	0	43	58·9	56·5
	Southend	0	47	60·7	—
	Tottenham	0	47	—	58·8
4.	Harrogate	0	42	55·0	54·1
	Huddersfield	0	43	57·7	54·6
	Buxton	—	—	—	—
	Sheffield	0	43	56·7	53·0
	Nottingham	0	42	57·5	56·1
	Birmingham	0	43	52·9	51·5
	Oxford	0	—	—	—
	Hereford	0	35	—	—
	Cirencester	0	37	57·7	55·3
	Bath	—	—	60·6	58·0
5.	Margate	0	49	59·1	56·8
	Greenwich	0	44	—	—
	Westminster	0	49	—	—
	Kew	0	47	59·1	55·9
	Canterbury	0	48	58·4	58·0
	Tunbridge Wells	0	46	60·4	—
	Wisley	0	45	60·7	57·7
	Worthing	0	43	60·6	57·8
	Portsmouth	0	45	61·0	58·9
6.	Glasgow	0	34	—	—
	Rothesay	—	—	—	54·1
	Colmonell	0	43	—	—
6.	Dumfries	0	33	55·9	57·9
	Douglas	0	43	—	—
7.	Aspatria	0	35	56·1	53·5
	Newton Rigg	0	42	56·9	53·7
	Burnley	0	46	54·9	52·9
	Southport	0	46	58·8	58·0
	Manchester City	0	46	57·5	57·1
	Bettws-y-Coed	0	40	54·7	54·0
8.	Llangammarch Wells	1	27	55·1	52·6
	Cardiff	0	34	58·8	56·9
	Clifton	0	40	—	—
	Plymouth	0	41	61·0	—
9.	Armagh	0	31	57·2	55·1
	Markree	0	35	57·3	54·7
10.	Dublin, Trin. Coll.	0	37	58·3	56·6
11.	Guernsey, Brooklyn	0	38	61·4	58·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·9
	Kirkwall	52	51	51·9
	Wick	52	51	51·3
SCOTLAND E.	Cromarty	57	55	55·6
	Pennan Bay	52	50	51·0
	Aberdeen, Cove Bay	52	52	52·0
ENGLAND, N.E.	Burnmouth, Berwick	51	50	50·8
	Scarborough	57	53	54·6
ENGLAND, E.	Shipwash Lightship	63	57	58·8
	Margate‡	60	58	58·9
ENGLAND, S.E.	Eastbourne‡	60	59	59·6
SCOTLAND, W.	Lamlash	54	52	52·9
	Ballantrae	54	49	51·6
ENGLAND, N.W.	Port Erin	54	53	53·1
ENGLAND, S.W.	Newquay	60	59	59·7
	Scilly	57	55	55·9
	Plymouth‡	59	59	59·0
	Salcombe	55	52	53·3
IRELAND, N.W.	Sheephaven	57	57	57·0
	Teelin	57	53	55·5
IRELAND, S.W.	Cleggan	55	50	51·8
	Seafield	59	54	56·2
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

Registering Balloon Ascents.

Height kms.	1 Pyrton Hill. June 7th, 1911. 8.0 p.m. Wind. Velocity m.p.s.	1 Wind. Direction°.	2 Manchester. June 7th, 1911. 8.53 p.m. Pressure Mgd.	2 Temperature. A°	3 Pyrton Hill. June 8th, 1911. 7.0 a.m. Wind. Velocity m.p.s.	3 Wind. Direction.°	4 Pyrton Hill, June 8th, 1911. 8.0 p.m. Wind. Velocity m.p.s.	4 Wind. Direction°.	5 Pyrton Hill, June 9th, 1911. 7.0 a.m. Wind. Velocity m.p.s.	5 Wind Direction°.	6 Manchester. June 9th, 1911. 8.23 p.m. Pressure. Mgd.	6 Temperature. A°	Height kms.
Ground	3	45	1·026	291	4	120	2	110	3	340	1·014	285	Ground
0·5	—	—	·972	287·5	—	—	—	—	—	—	·958	279	0·5
1·0	10	80	·918	284	11	120	2	70	8	320	·902	275	1·0
1·5	—	—	·864	281·5	—	—	—	—	—	—	·846	**270·5**	1·5
2·0	9	90	·812	279·5	9	115	4	90	4	2·0	·794	**271**	2·0
2·5	—	—	·762	277	—	—	—	—	—	—	·745	**271**	2·5
3·0	6	85	·715	274	6	95	5	40	7	300	·701	**270**	3·0
3·5	—	—	·671	**270·5**	—	—	—	—	—	—	·658	**269**	3·5
4·0	3	60	·629	**267**	6	95	1	40	7	315	616	**265·5**	4·0
4·5	—	—	·590	**263·5**	—	—	—	—	—	—	·575	**262**	4·5
5·0	4	60	·552	**259·5**	10	125	4	150	9	320	·539	**259·5**	5·0
5·5	—	—	·518	**255**	—	—	—	—	—	—	·504	**256**	5·5
6·0	4	240	·485	**251**	7	120	4	150	10	315	·472	**252**	6·0
6·5	—	—	·454	**246·5**	—	—	—	—	—	—	·441	**247·5**	6·5
7·0	4	245	·424	**243**	2	260	2	45	13	305	·412	**243**	7·0
7·5	—	—	·395	**239·5**	—	—	—	—	—	—	·384	**238·5**	7·5
8·0	1	130	·368	**237 234·5**	4	250	14	290	12	290	·357	**233·5**	8·0
8·5	—	—	·343	**233·5 230·5**	—	—	—	—	—	—	·331	**228·5**	8·5
9·0	5	250	·318	**229·5 226·5**	4	260	7	260	16	280	·307	**224**	9·0
9·5	—	—	·294	**226 222·5**	—	—	—	—	—	—	·285	**220·5**	9·5
10·0	0	—	·272	**222 218**	4	280	10	280	—	—	·264	**217**	10·0
11·0	5	280	·231	**215·5 213·5**	4	320	9	270	—	—	·225	**212**	11·0
12·0	0	—			5	5	9	270	—	—	·192	**211·5**	12·0
13·0	1	350			0	—	—	—	—	—	·165	**214**	13·0
14·0	2	30			2	250	—	—	—	—	·143	**214**	14·0
15·0	1	10			3	340	—	—	—	—	·121	**214**	15·0
16·0	—	—			2	30	—	—	—	—	·103	**214·5**	16·0

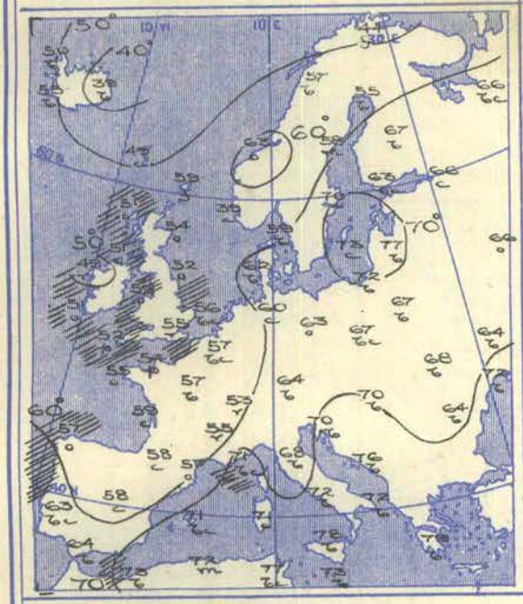
NOTES.

1—Ascensional velocity of 220 m. per minute assumed. Kept for 70 minutes and seen to burst. Cloudless, very clear. **2**—Ballon fell at Nether Alderley, Chelford, Cheshire, distant 25 km., direction 183°. Gradient (Ground to 7 km.) 0·69° per 100 metres. Lowest temperature **212**° A at 11·7 km. **3** Velocity of 180 m. per minute assumed. Seen to burst after 91 minutes and watched while falling for 24 minutes. The rate of descent was about 600 m. per minute. Cloudless, very clear. **4**—Velocity of 180 m. per minute assumed. Kept for 67 minutes. Passed back within 10° of the zenith after 47 minutes. Cloudless, very clear. **5**—Velocity of 220 m. per minute assumed. Kept for 48 minutes. Cloudless. **6**—Balloon found 10.30 p.m. June 9th at Shepshed, Leicestershire, distant 102 km., direction 141°. Gradient (Ground to 7 km.) 0·60° per 100 metres. Upper inversion reached at 11·5 km., temperature **210**° A. Lowest temperature **210**° A at 11·4 km. Greatest height 16·7 km., pressure ·091 mgd., temperature **215**°.

Sunday, 25th June, 1911.

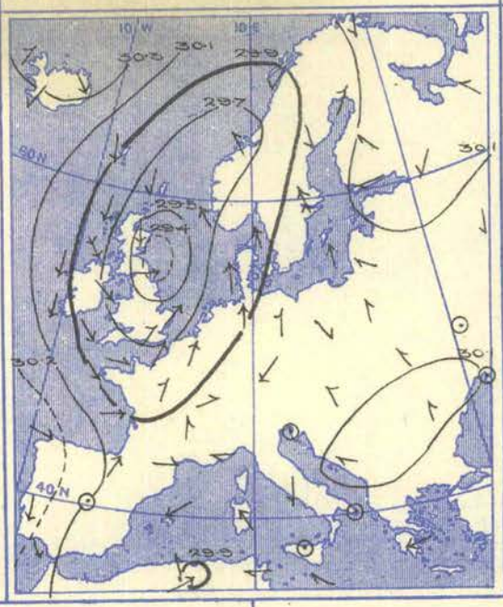
Temperature and Weather.

7 a.m.

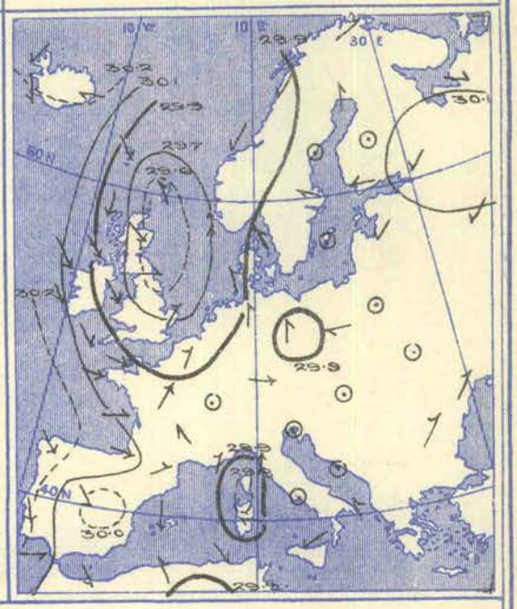


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright in most parts of eastern and southern Europe, cloudy and misty in Scandinavia generally, and dull and rainy over the greater part of the British Islands and France. Remaining fine throughout the day over Russia, Austria and on the shores of the Mediterranean, but rain falling in nearly all other parts of our area, amounts not large as a rule, but very heavy falls, 3·4 in., reported locally at Berlin and Lugano.

Temperature risen over Russia and south-eastern Europe, fallen over eastern France and western Germany, changed irregularly elsewhere. Morning readings ranging from about 50° to 57° in our Islands, below 60° over the western parts of the Continent generally, but above 65° over all the eastern and southern countries, and as high as 78° at Palermo and 79° at Athens. Maxima below 60° in nearly all parts of the United Kingdom, but between 80° and 90° in the southern and south-eastern parts of the Continent generally, as high as 91° at Bucharest and 96° at Malta; 109° at Biskra (Algeria).

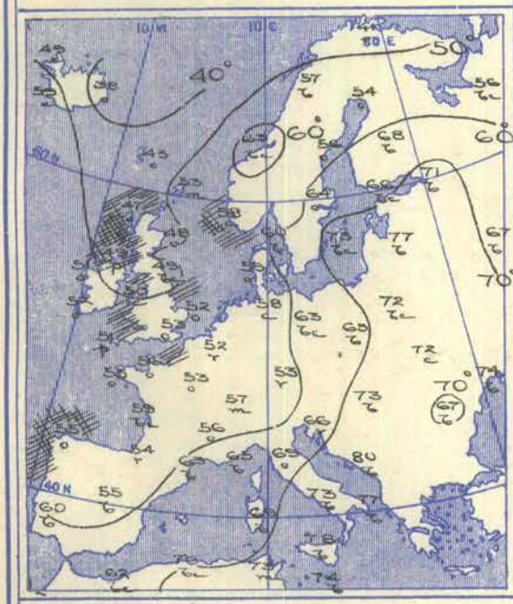
Wind in morning showing a well-marked cyclonic circulation over the British Isles, the North Sea, and the neighbouring continental countries; strong to a gale in force on many of our own coasts. Variable, and generally light or moderate, in other parts of our area. Increasing to a fresh gale in the west of Norway and to a strong gale at Malin Head during day; little other change.

Barometer in morning highest about 30·5 in. in the neighbourhood of the Azores, and between that value and 30·2 in. thence to the western part of the Spanish Peninsula; relatively high, above 30·1 in. in two separate areas, over northern Russia and south-eastern Europe. Lowest 29·4 in. and less in a depression off our north-east coasts. Scarcely any change during day in the position of the depression over the North Sea, but barometer rising over our Islands generally.

Monday, 26th June, 1911.

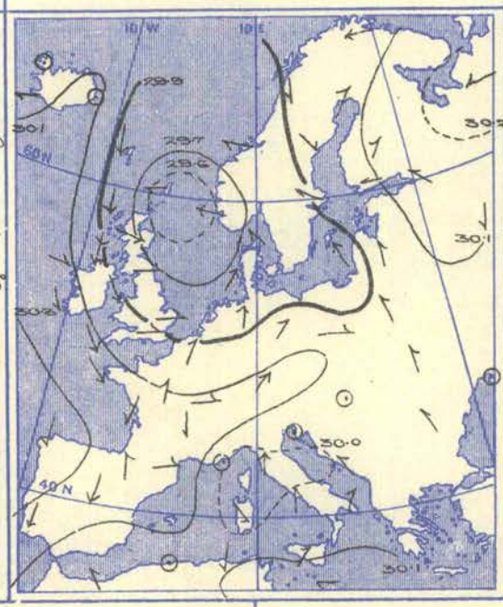
Temperature and Weather.

7 a.m.

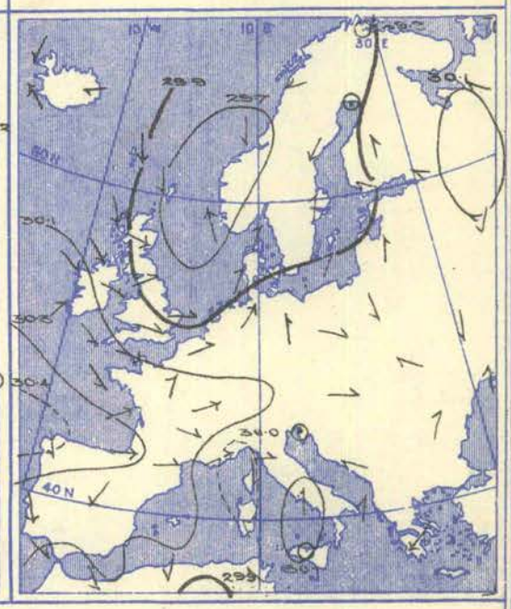


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean region as well as over Russia, cloudy or dull over north-western Europe and the British Islands as a whole, with rain in Belgium and on the Straits of Dover, at Spurn Head, on our extreme north-west coasts and in a few isolated places on the Continent. Slight rain during day at most of our own stations, and considerable amounts in most of the Continental countries, largest measurements 0·4 in. at Paris, and 0·8 in. at Hernosand, thunderstorm occurring at Uleaborg.

Temperature risen over eastern and south-eastern Europe, fallen over the British Islands and the western and central countries. Morning readings ranging from 47° to 53° in Great Britain and Ireland, about 55° over the western parts of the Continent, between 65° and 80° over the eastern and southern countries. Maxima during day generally below 60° in our Islands and the nearer parts of the Continent, but between 75° and 85° in the central and southern countries as a whole, and as high as 95° at Brindisi; at Biskra (Algeria) it rose to 104°.

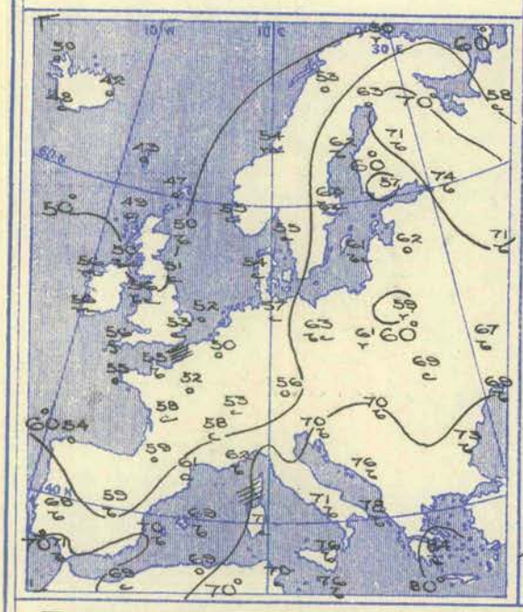
Wind in morning still showing a cyclonic circulation over the British Islands and the North Sea region, light to fresh in force as a rule, but high from north-west at Spurn Head and a gale from north at Malin Head. Variable and light or moderate over the Continent generally. Decreasing considerably in force over our Islands during day, little change elsewhere.

Barometer in morning lowest 29·6 in. and less in a depression lying between the Scotch and Norwegian coasts, 30·0 in. and less in a shallow disturbance over the Mediterranean and Northern Italy; highest 30·1 in. and upwards over Tunisia, 30·2 in. and upwards over Northern Russia, and 30·3 in. to 30·5 in. and upwards between the Spanish Peninsula and the Azores. Main depression moving northwards during day and barometer falling over Northern Europe generally; pressure increasing at most of our own stations.

Tuesday, 27th June, 1911.

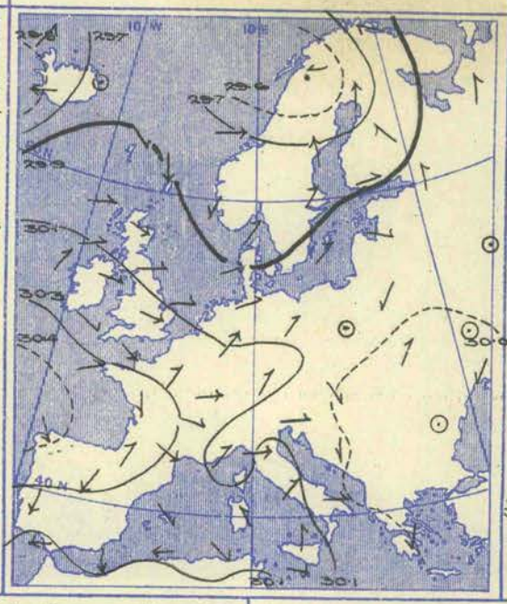
Temperature and Weather.

7 a.m.

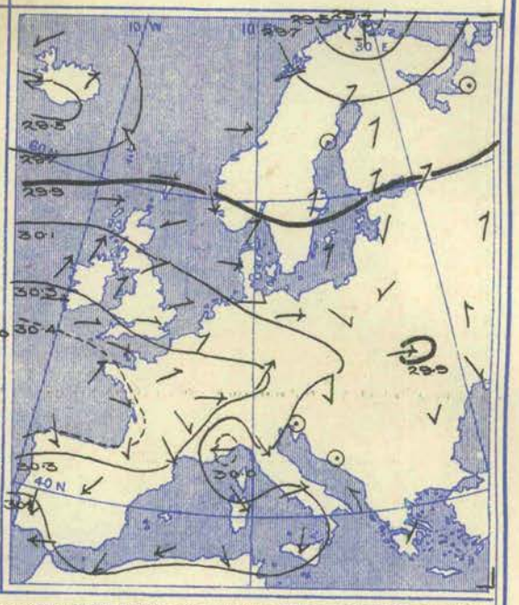


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over eastern and south-eastern Europe generally, and fair or fine in many parts of the British Islands, cloudy or dull over France and central Germany with rain in the latter country. Slight showers during day at some of our northern and north-western stations and considerable rain falling in various parts of the Continent, 0·6 in at Bodö, 0·7 in. at Lemberg, and 1·2 in. at Trieste; remaining fine over the United Kingdom generally.

Temperature risen slightly over the British Islands, the Spanish Peninsula, and the extreme north of Europe, fallen slightly in most parts of the Continent and decidedly over Poland and the Baltic. Morning readings ranging from 47° to 56° in our Islands, between 50° and 60° over the nearer regions of the Continent, but increasing to 70° and upwards in the southern countries generally and to 84° at Athens. Rising to 70° or a little below in many parts of England during day, to 80° or above at most of the southern Continental stations, to 88° at Hermanstadt and Patras, and in Algeria to 104° at Biskra.

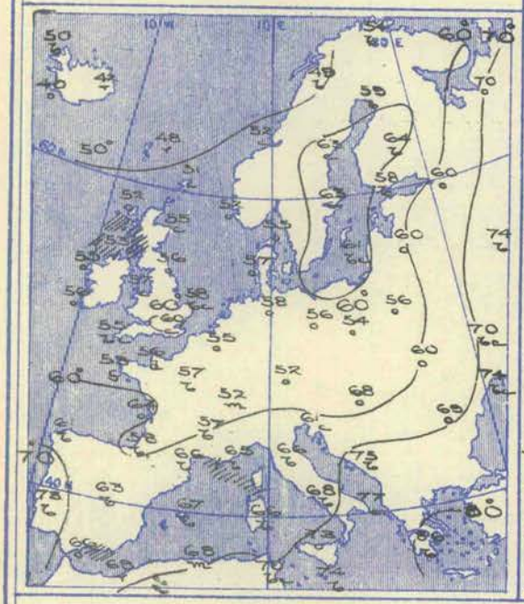
Wind in morning north-west or west in Great Britain, and west to south-west in Ireland; light or moderate in force generally, but fresh or strong on our north-east coasts; south-west or south over central and northern Europe, strong at Christiania and Haparanda; chiefly north-east to east, fresh, over the Spanish Peninsula and Algeria, and light variable over the southern and eastern countries. Increasing to a strong breeze from north-east on the north coast of Africa, and to a fresh gale from east at San Fernando later, but decreasing somewhat in force in most parts of the British Islands and Scandinavia.

Barometer in morning highest 30·3 in. over the west of France and increasing to 30·5 in. at the Azores. Lowest 29·6 in. and less in a depression over northern Scandinavia and in another to the west of Iceland; 30·0 in. and less over southern Russia and the Balkan Peninsula and also over central Algeria. Depression over Scandinavia moving North-Eastwards during day and growing deeper, that near Iceland spreading eastwards towards Faröe.

Wednesday, 28th June, 1911.

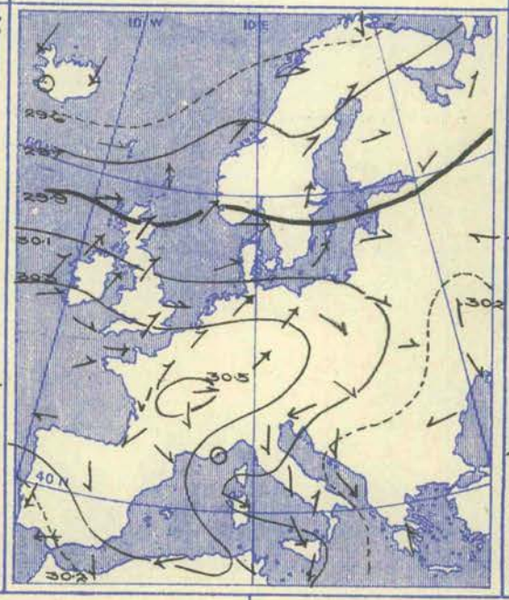
Temperature and Weather.

7 a.m.

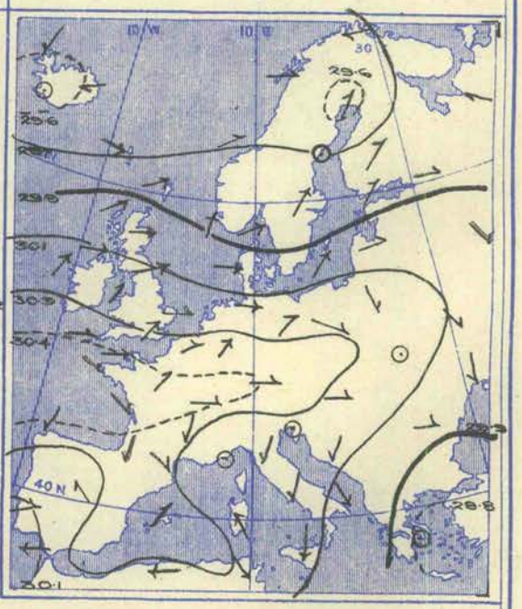


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally fine and bright over the eastern and southern Continental countries, mostly cloudy or dull over the British Islands and north-western and central Europe, with rain at Faröe and in eastern Iceland, as well as at Malin Head and Jersey, and at some stations in Austria. Heavy rain (1 in.) later at Hermanstadt, and considerable amounts in Scandinavia and northern Russia, 0·9 in. at Archangel, small measurements at most of our own northern and western stations.

Temperature risen over the British Islands and the western parts of the Continent, fallen in most other parts of Europe. Morning readings below 50° in the Icelandic region, and below 60° over the major portion of the United Kingdom and the Continent, above 70° in the extreme east and south-east, and as high as 86° at Athens. Maxima during day above 60° in nearly all parts of the British Islands and as high as 70° to 73° in the southern and eastern countries, between 80° and 90° over the southern Continental countries generally, as high as 95° at Malta; 102° at Biskra and 104° at Laghouat (Algeria).

Wind in morning south-west to west over north-western Europe generally, fresh or strong in force at some stations in Scandinavia and on our north-west coasts; chiefly moderate from north-west over Italy and the neighbouring seas, and east, fresh to a gale, over Algeria and the south of Spain. Very little change taking place during day.

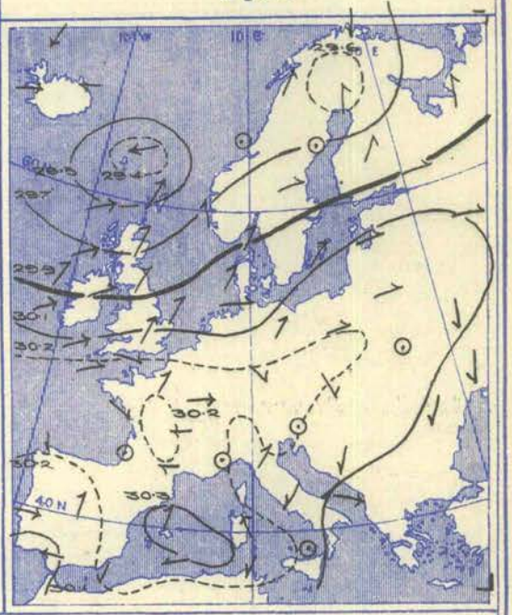
Barometer in morning highest 30·4 in. and upwards in a band of high pressure stretching from Mid-Atlantic to central Europe; lowest 29·6 in. and less in a depression over the Iceland region, 30·0 in. and less in a shallow system over the Balkan Peninsula and southern Russia, and below 30·1 in. between Madeira and Morocco. No change of importance later.

Thursday, 29th June, 1911.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.

Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the British Islands, the Low Countries, Germany and Northern Russia, with rain at the Helder, Spurn Head, some of our north-western stations, and, locally, at Hermanstadt; fair or fine in most other parts of our area. Rain falling during day in all parts of the United Kingdom, the Low Countries and north of France, as well as in Norway and in many parts of Russia, heaviest falls 0·8 in. at Newquay and 0·7 in. at Uleaborg and Hermanstadt.

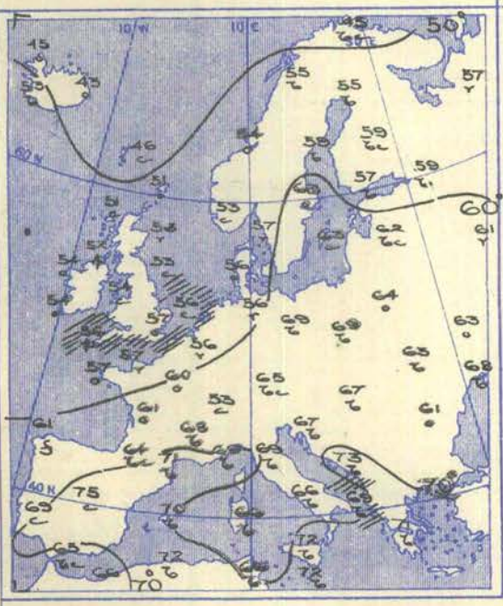
Temperature fallen decidedly in most parts of Sweden, Russia and south-eastern Europe and slightly over the United Kingdom generally, risen over central Europe and the Spanish Peninsula. Morning readings ranging from below 50° in Iceland and Lapland, between 50° and 60° over the British Islands and a considerable portion of the Continent, and above 70° at a few stations in the far south. Touching or just exceeding 70° on our east coast during day, but remaining below that value in our other districts; rising to 80° or above over southern Europe generally, and to 102° at Laghouat (Algeria).

Wind in morning south to west over the British Isles, the Channel, the North Sea and northern Europe, variable over France, but chiefly north or north-west over south-eastern Europe and the Mediterranean; light or moderate in force generally, but fresh or strong breezes reported at some Scandinavian and Baltic stations as well as on our western coasts. Very little change taking place during day excepting an increase to a high wind at Brindisi.

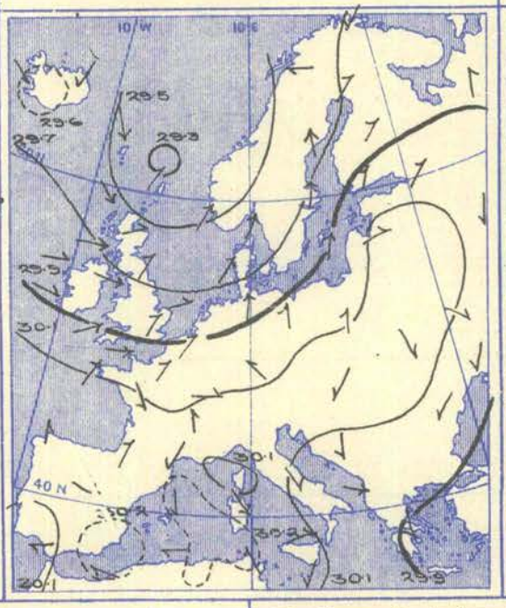
Barometer in morning highest between 30·3 in. and 30·4 in. in a long band stretching from the Azores to central Europe; lowest 29·5 in. and less to 29·6 in. in a system in the Iceland-Faröe region and extending to Lapland, about 29·8 in. over the Grecian Archipelago, and below 30·2 in. off the south-west of Spain. Northern depression moving south-eastwards towards Scotland during day and barometer falling over western Europe generally.

Friday, 30th June, 1911.

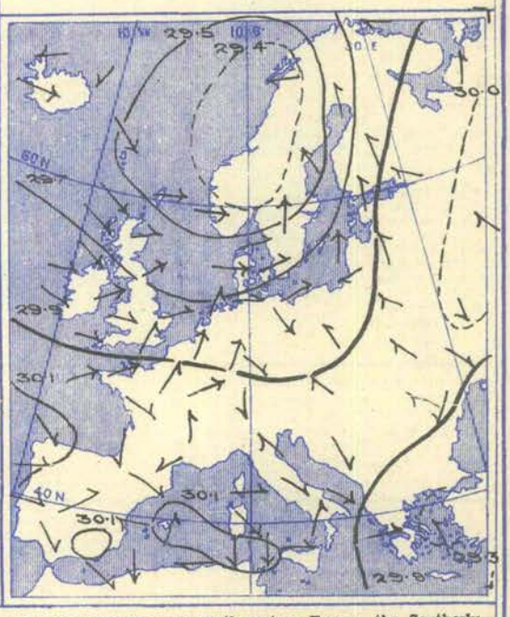
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull, with rain in places in most parts of our Islands, the north of France, Germany and southern Scandinavia, generally fine and bright over southern and eastern Europe. Rain falling during day except over the countries bordering on the Mediterranean and in southern Russia, largest amount 0·6 inch at Lerwick and about 0·4 in. at one or two German stations.

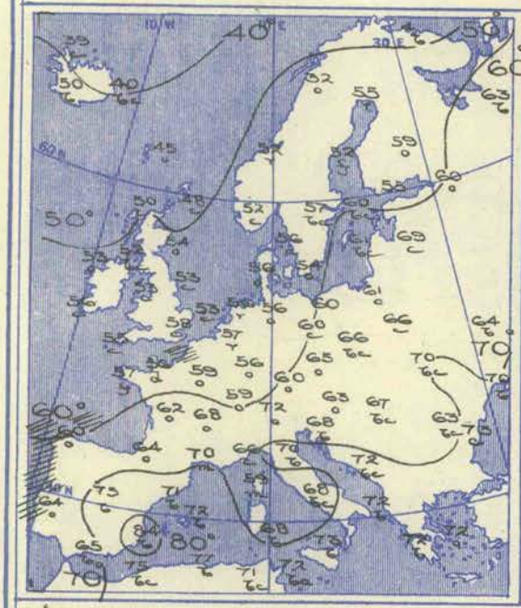
Temperature fallen slightly over the United Kingdom, changed irregularly elsewhere; morning readings between 50° and 58° in our Islands, between 55° and 65° over the Continent as a whole, but above 70° at several stations in the extreme south. Maxima during day below 60° at most of our own western and northern stations and not touching 70° in any part of our Islands; between 80° and 85° at most places in southern Europe.

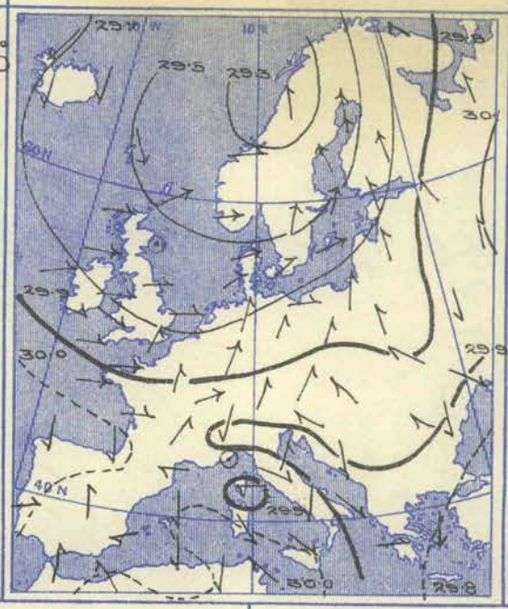
Wind in morning showing a cyclonic circulation over north-western Europe, the Southerly current being fresh or strong in force over southern Scandinavia and that from West or North-West fresh or strong in various parts of the British Islands; Northerly or North-Westerly over south-eastern Europe, light generally, but high at Brindisi; light variable in other parts of our area. Very little change occurring during day.

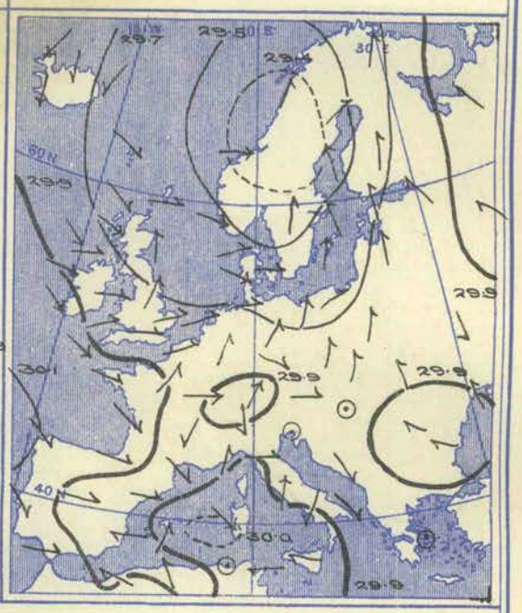
Barometer in morning lowest about 29·3 in. in a depression lying to the north of Shetland, and 29·6 in. and less in a secondary over Iceland; 29·9 in. and less in another system over Greece, and about 30·1 in. in two shallow disturbances, lying respectively off the Riviera and to the south-westward of Spain. Highest 30·4 in. and upwards in the neighbourhood of the Azores, and about 30·2 in. over the central part of the Mediterranean. Pressure very complex over southern Europe. Depression in north moving north-eastward to the Norwegian coast during day, and barometer falling over the southern part of our area.

Saturday, 1st July, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning cloudy or dull over the greater part of our Islands and northern and western Europe generally, with rain in many places, fine and bright over the eastern and southern countries and the Mediterranean as a whole. Rain falling during day in most parts of northern and north-western Europe, amounts mostly small in our Islands, but considerable at several stations in Sweden, Denmark, and northern Russia. Lightning seen at Valencia at night.

Temperature risen slightly over Russia and the countries bordering on the Mediterranean, fallen generally in most other parts of our area. Morning readings ranging from about 50° to 58° in our Islands, below 60° over the greater part of France, Germany and Scandinavia, but above 70° over southern and south-eastern Europe generally. Maxima during day no higher than 53° at Lerwick and Wick, and below 60° at many stations in the west and north of our Islands, but between 65° and 70° in the east and south; between 85° and 90° in many parts of southern Europe and as high as 106° at Biskra (Algeria).

Wind in morning showing a cyclonic circulation over north-western Europe generally, light or moderate in force over our Islands as a whole, but strong to a gale in many parts of Scandinavia. Light and somewhat variable over the eastern and southern parts of our area. Gale in Sweden subsiding during day, but wind freshening from the Westward in many parts of the United Kingdom; not much change elsewhere.

Barometer in morning highest from 30·1 in. to 30·4 in. on the Atlantic between Spain and the Azores, and relatively high, 30·1 in. and upwards over north-eastern Russia. Lowest 29·5 in. to 29·3 in. and less in a depression over Scandinavia, and 29·9 in. and less in various shallow systems over the Mediterranean region. Northern disturbance moving eastwards to central Scandinavia during day and barometer rising over the British Islands generally.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). (See also p. 212.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	June 25th, 3.40 p.m. to 4.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	286° 73% 270°, 8·9	284·6° 78% 270°, 11	282° 83% 270°, 13						Overcast Nimbus and Alt.-St. No clouds reached.
2	June 29th, 10.0 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	286·8° 90% 240°, 12·5	284·7° 90% 250°, 9	282·5° 85% 260°, 8	281·4° 50% ? °, 8				285·7° 20% ? °, 8 } 1,300	Nearly overcast Nimbus and Stratus. Lowest clouds 500 m., above which height Kite not seen.
3	July 1st, 10.0 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature .. Humidity .. Wind	286·7° 90% 250°, 8	284·7° 90% 260°, 14	283° 90% 270°, 13	283° 90% 300°, 8				279·2° 80% 310°, 8 } 1,120	Half overcast S.-Cu. Storm Cu. N. Horizon. Shower at 11.50 a.m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	2	2
Area of Surface (sq. ft.)	4.5	10	10
Capacity of Balloon (cub. ft.) ..	—	—	—
Length of Wire (feet)	900	2,000	2,000

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 27. TWENTY-SEVENTH WEEK, SUNDAY, JULY 2ND, TO SATURDAY, JULY 8TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was unsettled, with rain on several days in Scotland and the north of Ireland, but over the whole of England and the south of Ireland conditions have been very fine, and scarcely any or no rain has fallen. By the end of the week the fine weather had extended to the northern districts also.

Temperature was slightly below the average in Scotland N. and W. and Ireland N., equal to it in England N.W., and above it elsewhere, the difference from the average was small, not more than 2½° in any district. The week has been remarkable for its high maxima, which have exceeded 80° in nearly all districts. Readings of 86° to 90° were recorded on Saturday over the greater part of eastern and southern England, the latter reading being reached at Epsom, Camden Square, and Cullompton. Shade minima of 36° to 38° were reported on Monday in Scotland, and a grass minimum of 29° at Llangammarch Wells on the same day.

Mean Temperature of the Sea was lower than during the corresponding week of last year at the western stations, higher at the eastern stations. The mean values ranged from 51° to 52° at several stations round the northern coasts to between 60° and 62° at many of those in the south and south-west.

Rainfall was rather above the average in Scotland N., below it elsewhere. In many districts the total was less 0·05 in., and in England S.W. and the English Channel it was nil.

Bright Sunshine exceeded the means in all districts except Ireland N. The excess was small in Scotland, but considerable elsewhere, the greatest excess being 30 or more hours over southern England and the English Channel.

Barometer and Wind. At the beginning of the week the barometer was rising all over western Europe, and from Monday onwards anticyclonic conditions prevailed over the greater part of the United Kingdom and the nearer Continental countries. The winds generally showed a light anticyclonic circulation.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 220.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Moderate	Light	Light	Light	Very light	Light	Moderate	Very light	Nought	Light	Very light	Nought
	Sunshine ...	Abundant	Moderate	Abundant	Abundant	Abundant	Very abundant	Moderate	Abundant	Very abundant	Moderate	Abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 5 weeks from June 4th, 1911.	Warmth ...	1 * 2	1 * 2	3 * 2	3 * 2	2 * 2	2 * 2	1 * 2	1 * 2	2 * 2	1 * 2	1 * 1	2 * 1
	Rainfall ...	2 * 2	1 * 2	1 * 2	2 * 2	1 * 2	1 * 2	1 * 1	1 * 2	1 * 2	1 * 2	2 * 3	2 * 1
	Sunshine ...	2 * 1	2 * 2	2 * 2	2 * 2	2 * 2	2 * 2	1 * 2	3 * 2	3 * 2	2 * 2	2 * 2	3 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-SEVENTH WEEK—July 2nd to July 8th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	74	37	60·0	48·4	53·8	− 0·7	83	− 5	0	0	5	+ 1	0·87	+0·09	36	+ 5	29	+ 4
Eastern																		
1. SCOTLAND, EAST	81	36	65·7	50·2	57·4	+ 1·1	108	+ 8	0	0	4	0	0·28	−0·35	44	+ 4	36	+ 3
2. ENGLAND, N.E.	85	40	71·3	51·8	60·9	+ 2·3	132	+ 16	0	0	1	− 2	0·16	−0·30	55	+ 8	47	+ 7
3. ENGLAND, EAST	87	42	73·0	52·8	62·2	+ 1·7	141	+ 12	0	0	1	− 2	0·03	−0·39	73	+ 21	63	+18
4. MIDLAND COUNTIES	88	41	74·6	51·8	62·4	+ 2·5	143	+ 17	0	0	1	− 2	0·03	−0·44	66	+ 19	57	+17
5. ENGLAND, S.E.	88	40	74·7	52·5	62·8	+ 1·8	146	+ 13	0	0	1	− 1	0·01	−0·39	83	+ 30	73	+27
Western																		
6. SCOTLAND, WEST	75	38	68·2	50·9	56·6	− 0·5	102	− 3	0	0	4	0	0·49	−0·30	43	+ 2	36	+ 1
7. ENGLAND, N.W.	81	40	67·2	51·4	58·7	0·0	117	0	0	0	2	− 1	0·05	−0·53	63	+ 18	54	+16
8. ENGLAND, S.W.	90	40	71·7	52·7	61·6	+ 2·2	137	+ 15	0	0	0	− 3	0·00	−0·53	81	+ 32	71	+28
9 IRELAND, NORTH	79	41	64·2	50·6	57·0	− 0·4	105	− 3	0	0	3	− 1	0·43	−0·20	32	− 2	27	− 1
10. IRELAND, SOUTH	86	41	69·7	50·1	59·3	+ 0·5	121	+ 3	0	0	1	− 3	0·01	−0·59	56	+ 17	48	+15
11. ENGLISH CHANNEL	85	48	70·6	54·3	61·9	+ 1·3	139	+ 8	0	0	0	− 3	0·00	−0·45	93	+ 33	83	+30

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 5 Weeks, July 2nd to July 8th, 1911.

0. SCOTLAND, NORTH	74	35	*	*	*	*	365	− 29	0	− 2	20	+ 1	3·76	+0·38	179	+ 4	29	+ 1
Eastern																		
1. SCOTLAND, EAST	81	28	*	*	*	*	435	− 8	5	+ 4	18	+ 2	3·03	+0·36	225	+17	37	+ 3
2. ENGLAND, N.E.	85	32	*	*	*	*	523	+ 33	0	0	14	0	4·07	+1·90	240	+17	41	+ 3
3. ENGLAND, EAST	87	34	*	*	*	*	579	+ 24	0	0	14	0	2·54	+0·26	262	+18	46	+ 3
4. MIDLAND COUNTIES	88	32	*	*	*	*	563	+ 3	0	0	14	0	2·16	−0·21	241	+20	42	+ 4
5. ENGLAND, S.E.	88	32	*	*	*	*	591	+ 7	0	0	12	− 1	1·95	−0·19	290	+40	51	+ 7
Western																		
6. SCOTLAND, WEST	80	31	*	*	*	*	448	− 34	0	0	18	+ 1	3·09	−0·36	239	+20	40	+ 3
7. ENGLAND, N.W.	82	34	*	*	*	*	503	− 18	0	0	17	+ 1	3·09	+0·43	255	+26	44	+ 5
8. ENGLAND, S.W.	90	30	*	*	*	*	565	+ 17	0	0	14	− 1	2·51	−0·11	289	+47	51	+ 8
9. IRELAND, NORTH	79	31	*	*	*	*	450	− 34	0	0	16	− 3	2·38	−0·71	206	+16	35	+ 3
10. IRELAND, SOUTH	86	36	*	*	*	*	539	+ 3	0	0	15	− 2	2·09	−0·85	232	+22	40	+ 4
11. ENGLISH CHANNEL	85	46	*	*	*	*	595	+ 16	0	0	13	− 3	2·86	+0·75	317	+29	57	+ 5

THE YEAR.—Aggregates, &c., for the Period of 27 Weeks, January 1st to July 8th, 1911.

0. SCOTLAND, NORTH	83	14	*	*	*	*	910	+ 68	415	−142	111	−12	24·89	+0·67	719	+ 49	30	+ 2
Eastern																		
1. SCOTLAND, EAST	83	11	*	*	*	*	1024	+ 50	492	−128	100	0	12·56	−1·37	823	+ 47	34	+ 2
2. ENGLAND, N.E.	85	19	*	*	*	*	1208	+166	371	−104	83	− 8	10·34	−0·31	815	− 10	34	0
3. ENGLAND, EAST	87	16	*	*	*	*	1354	+108	409	−112	88	− 1	10·36	−0·24	915	+ 36	38	+ 2
4. MIDLAND COUNTIES	88	14	*	*	*	*	1354	+ 85	415	−118	74	−14	8·34	−3·74	787	− 1	33	0
5. ENGLAND, S.E.	88	16	*	*	*	*	1378	+ 27	361	− 20	76	− 8	9·98	−1·77	958	+ 77	40	+ 3
Western																		
6. SCOTLAND, WEST	82	18	*	*	*	*	1183	+109	347	− 78	95	−11	19·42	−1·85	846	+ 54	35	+ 2
7. ENGLAND, N.W.	83	17	*	*	*	*	1248	+103	314	− 72	84	−13	13·48	−1·47	881	+ 81	37	+ 3
8. ENGLAND, S.W.	90	13	*	*	*	*	1342	+ 29	297	− 4	83	−12	13·97	−2·73	955	+ 76	40	+ 3
9. IRELAND, NORTH	79	18	*	*	*	*	1180	+ 36	302	− 43	91	−23	12·88	−4·17	834	+ 83	35	+ 3
10. IRELAND, SOUTH	86	18	*	*	*	*	1435	+ 80	295	+ 36	99	− 4	13·98	−4·48	875	+ 43	37	+ 2
11. ENGLISH CHANNEL	85	28	*	*	*	*	1525	+ 27	135	+ 26	89	−14	11·70	−2·33	1065	+ 14	45	+ 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Dew.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.
The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound 8	60	5th	44	2nd	55·8	46·8	51·0	—	63	0	4	0·40	—	30·4	—	24	—	Baltasound.
	a Lerwick	63	5th	44	2nd	56·7	48·0	52·1	+ 1·0	71	0	4	0·59	—	46·1	+13·0	37	+10	Deerness.
	a Stornoway	66	5th	40	2nd	59·1	47·6	53·0	− 0·3	77	0	5	1·13	+ 0·50	39·6	+ 0·3	32	0	Stornoway.
	a Castlebay, Barra Isd.	59	8th	45	3rd	55·7	49·7	52·5	− 3·6	74	0	5	0·76	—	22·2	—	19	—	Castlebay.
b, Mainland.	a Wick	74	5th	42	3rd	61·0	48·1	54·1	+ 0·6	85	0	4	0·55	+ 0·01	*	*	*	*	* *
	p Strathpeffer	71	5th	41	3rd	65·0	48·0	55·9	+ 0·6	97	0	4	0·65	+ 0·08	35·5	+ 2·2	29	+ 2	Strathpeffer.
	p Glencarron	66	8th	42	3rd	57·7	48·3	52·7	− 0·8	75	0	6	1·95	+ 0·34	*	*	*	*	* *
	p Fort Augustus	62	8th	37	3rd	60·4	48·7	54·1	− 1·1	85	0	5	0·29	− 0·30	20·9	− 6·8	17	− 6	Fort Augustus.
	p Fort William	71	8th	43	3rd	60·4	50·1	54·9	− 1·0	90	0	5	0·92	− 0·08	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 8	76	5th	42	2nd, 3rd	66·5	49·0	57·1	+ 0·8	106	0	4	0·58	− 0·02	47·7	—	39	—	Gordon Castle.
	a Nairn	73	5th	43	3rd	64·7	50·3	57·0	+ 1·5	105	0	4	0·34	− 0·16	45·3	—	37	—	Nairn.
	a Aberdeen	81	5th	43	3rd	68·0	51·7	59·3	+ 4·1	121	0	4	0·25	− 0·29	56·8	+16·8	47	+14	Aberdeen.
	a Balmoral 8	73	4th	36	3rd	64·8	48·9	56·2	+ 2·5	99	0	3	0·14	− 0·40	46·1	—	38	—	Crathes S.
	p Crieff 8	74	8th	40	3rd	67·1	50·1	58·0	+ 0·9	112	0	3	0·17	− 0·49	37·0	—	31	—	Balruddery.
	a Leith	70	5th, 6th	44	3rd	65·6	52·0	58·3	+ 1·1	114	0	5	0·23	− 0·30	*	*	*	*	* *
	p West Linton 8	69	8th	37	3rd	63·3	49·3	55·8	+ 0·9	97	0	4	0·36	—	—	—	—	—	West Linton.
	p Marchmont 8	72	5th	40	3rd	65·9	50·1	57·5	+ 2·0	109	0	2	0·15	− 0·48	33·7	− 7·9	28	− 7	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	77	5th	42	3rd	69·2	51·9	60·0	+ 4·0	126	0	2	0·32	− 0·23	37·2	—	31	—	Cockle Park.
	a Shields	78	6th	42	3rd	68·7	49·6	58·5	+ 2·2	116	0	3	0·19	− 0·31	38·9	+ 5·9	33	+ 5	Newcastle.
	p Durham	79	5th	41	3rd	71·5	51·1	60·6	+ 3·4	130	0	2	0·13	− 0·43	50·0	+10·5	42	+ 9	Durham.
	p Rounton M	79	6th	40	3rd	71·0	49·6	59·6	+ 2·7	123	0	1	0·14	− 0·38	*	*	*	*	* *
	p Scarborough M	82	6th	46	2nd, 3rd	70·4	53·6	61·4	+ 4·0	136	0	1	0·14	− 0·34	45·2	—	38	—	Scarborough.
	p York	81	7th	43	3rd	72·6	52·1	61·6	+ 2·7	137	0	1	0·27	− 0·25	63·7	+23·1	54	+20	York.
b, South.	a Spurn Head	76	8th	48	3rd	68·1	54·0	60·6	+ 2·7	130	0	1	0·20	− 0·16	*	*	*	*	* *
	a Lincoln	82	6th, 8th	44	3rd	75·0	51·9	62·7	+ 3·0	145	0	0	0·00	− 0·47	68·6	—	59	—	Skegness.
	a Fulbeck	85	7th	43	3rd	75·3	52·6	63·2	+ 3·8	148	0	1	0·01	− 0·46	62·1	—	54	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	79	6th	46	3rd	70·2	53·6	61·3	+ 2·8	135	0	1	0·01	—	79·6	—	69	—	Lowestoft.
	p Hillington M	84	8th	42	3rd	74·5	51·2	62·0	+ 2·8	140	0	1	0·03	− 0·54	70·5	—	61	—	Cromer.
	a Yarmouth	82	8th	45	3rd	70·0	54·1	61·5	+ 3·0	137	0	1	0·06	− 0·44	67·7	+22·0	58	+19	Hillington.
	a Norwich	83	6th	45	3rd	73·8	52·4	62·4	+ 3·3	143	0	1	0·03	—	71·4	—	62	—	Yarmouth.
	p Geldeston	85	8th	42	3rd	73·7	51·3	61·7	+ 2·9	138	0	1	0·09	− 0·37	*	*	*	*	* *
	p Cambridge	86	8th	44	3rd	75·3	52·0	62·8	+ 2·6	146	0	1	0·01	− 0·49	73·5	+25·5	64	+22	Geldeston.
b, South.	a Felixstowe	83	8th	45	3rd	71·7	54·0	63·2	+ 2·5	141	0	1	0·12	—	70·4	+23·4	61	+20	Cambridge.
	a Clacton-on-Sea	78	8th	48	3rd	69·7	54·3	61·5	+ 1·9	137	0	1	0·04	—	90·2	—	79	—	Felixstowe.
	a Rothamsted	83	8th	44	4th	74·3	50·6	61·6	+ 2·8	137	0	0	0·00	− 0·53	84·0	—	74	—	Clacton.
	a Shoeburyness	80	8th	50	3rd	72·6	54·4	62·9	+ 1·4	146	0	1	0·01	− 0·39	70·2	+23·3	62	+21	Rothamsted.
	p Tottenham	87	8th	50	3rd, 4th	75·9	55·5	65·0	+ 4·2	161	0	0	0·00	—	81·5	—	72	—	Southend.
															72·2	—	63	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	79	7th	41	3rd	69·9	49·7	59·1	+ 2·3	120	0	1	0·16	− 0·38	72·5	—	62	—	Harrogate.
	a Bawtry	85	6th	44	3rd	73·9	50·3	61·3	+ 2·2	135	0	0	0·00	− 0·47	?57·9	+19·5	50	+17	Worksop.
	p Buxton M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Buxton.
	a Nottingham	84	7th	45	3rd	73·7	51·1	61·6	+ 2·4	137	0	0	0·00	− 0·50	58·6	—	51	—	Nottingham.
	p Birmingham, Edgbsn	83	8th	46	3rd	73·3	54·1	63·0	+ 4·5	147	0	1	0·08	− 0·42	48·5	—	42	—	Birmingham.
	a Raunds M	88	8th	44	3rd	77·7	52·8	64·4	+ 4·3	157	0	0	0·00	—	*	*	*	*	* *
b, West.	a Oxford	88	8th	47	3rd	77·0	55·0	65·2	+ 5·2	162	0	0	0·00	− 0·54	75·4	+29·6	66	+26	Oxford.
	a Cheadle M	80	6th, 7th	43	3rd	70·9	50·8	60·2	+ 3·3	127	0	1	0·03	− 0·57	73·1	—	63	—	Sheffield.
	p Shrewsbury	85	7th	48	3rd	75·1	50·9	62·2	+ 3·7	141	0	1	0·03	—	*	*	*	*	* *
	a Hereford M	85	8th	43	4th	75·6	50·4	62·1	+ 2·7	141	0	0	0·00	− 0·50	*	*	*	*	* *
	a Cirencester	86	8th	42	3rd	77·6	51·4	63·6	+ 5·4	151	0	0	0·00	− 0·56	68·1	+23·1	60	+20	Cirencester.
	a Bath	86	7th, 8th	45	4th	75·4	53·1	63·5	+ 3·9	151	0	0	0·00	− 0·56	73·2	—	64	—	Bath.
															87·6	—	77	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	86	8th	49	3rd	76·5	55·2	65·1	+ 4·6	162	0	0	0·00	− 0·51	76·9	+30·8	68	+27	Kew.
	a Marlborough	86	8th	40	3rd	76·4	47·8	61·1	+ 2·3	134	0	0	0·00	− 0·58	71·3	+28·9	63	+25	Marlborough.
	a Margate	85	8th	50	3rd	74·7	54·7	64·0	+ 3·3	154	0	1	0·06	− 0·38	84·7	+41·0	74	+36	Margate.
	a Wisley, Surrey	88	8th	46	3rd	77·1	51·8	63·6	+ 2·3	151	0	1	0·05	—	78·4	—	70	—	Wisley.
	a Swarraton M	85	8th	42	4th	75·4	49·3	61·4	+ 2·9	136	0	0	0·00	− 0·52	92·8	—	82	—	Worthing.
	a Tunbridge Wells M	87	8th	44	3rd	76·2	51·2	62·8	+ 3·5	146	0	1	0·03	− 0·47	89·3	+41·9	78	+37	Tunbridge Wells.
	a Dungeness	75	6th	43	3rd	69·0	52·3	60·1	+ 0·8	127	0	0	0·00	− 0·38	88·4	—	78	—	Littlestone.
	p Hastings	81	7th	47	3rd	71·8	54·4	62·5	+ 3·0	144	0	0	0·00	− 0·46	97·5	+43·5	86	+39	Hastings.
	p Southampton	86	7th, 8th	47	3rd	75·7	53·4	63·8	+ 2·4	153	0	0	0·00	− 0·50	76·2	+26·4	67	+23	Southampton.
	a Ventnor	82	7th	50	3rd	73·7	55·0	63·7	+ 2·9	152	0	0	0·00	− 0·47	83·8	+37·1	74	+33	Ventnor.
															92·4	+38·8	82	+34	Eastbourne.
LONDON	a Westminster	87	8th	49	3rd	77·0	55·7	65·6	+ 4·5	165	0	1	0·01	− 0·49	70·6	+30·1	62	+26	Westminster.
	a Greenwich	88	8th	48	3rd, 4th	78·9	53·0	65·0	+ 3·0	161	0	0	0·00	− 0·50	73·0	+22·7	64	+24	Greenwich.
6. a, SCOTLAND. W.	a Poltalloch 8	64	5th	44	3rd	60·4	51·6	55·7	− 1·5	96	0	6	1·68	+ 0·85	*	*	*	*	* *
	p Glasgow	71	8th	44	2nd, 3rd	62·6	51·9	56·9	+ 0·4	104	0	4	0·36	− 0·30	27·5	− 8·0	23	− 7	Glasgow.
	p Rothesay 8	67	8th	41	3rd	62·0	49·9	55·5	− 1·9	95	0	4	0·81	0·00	*	*	*	*	* *
	a Kilmarnock	67	8th	38	3rd	62·3	49·9	55·7	− 1·5	96	0	4	0·30	—	26·8	—	23	—	Kilmarnock.
	a Colmonell 8	70	5th	43	3rd	64·3	51·4	57·4	+ 0·6	108	0	4	0·43	− 0·23	*	*	*	*	* *
	p Dumfries 8	70	8th	42	3rd	65·1	51·9	58·0	0·0	112	0	2	0·08	− 0·57	34·7	—	29	—	Dumfries.
	p Cally, Gatehouse 8	75	8th	40	2nd	65·2	49·0	56·5	− 0·6	102	0	2	0·21	− 0·55	*	*	*	*	* *
b, ISLE OF MAN	p Douglas	72	7th	44	3rd	63·6	51·2	57·0	+ 0·8	105	0	2	0·02	− 0·62	58·3	+ 9·9	49	+ 8	Douglas.
															76·5	—	65	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	71	8th	42	3rd	65·3	51·5	57·9	+ 1·8	111	0	3	0·07	− 0·63	40·6	—	34	—	Aspatria.
	p Newton Rigg	74	7th	40	3rd	67·2	50·4	58·2	+ 2·2	113	0	1	0·05	− 0·54	42·5	− 1·7	36	− 2	Newton Rigg.
	p Stonyhurst	74	7th	43	3rd	66·8	49·9	57·8	− 0·4	111	0	2	0·08	− 0·71	59·6	+16·1	51	+14	Stonyhurst.
	p Blackpool M	69	6th	45	8th	63·4	50·2	56·3	− 1·7	100	0	1	0·03	− 0·52	72·0	+27·6	62	+24	Blackpool.
	p M'nch'ster, Prestwich	80	6th	43	3rd	71·5	50·0	60·0	+ 2·2	126	0	2	0·03	− 0·65	66·0	+27·8	56	+14	Prestwich.
	a Liverpool (Bidston)	72	7th	49	2nd	65·1	53·6	59·0	− 0·2	119	0	1	0·01	− 0·56	74·2	—	63	—	Liverpool.
	a Hawarden Bridge	75	7th	49	2, 3, 6th	68·4	51·7	59·5	+ 0·5	123	0	0	0·00	− 0·46	76·3	+29·9	65	+26	Southport.
															78·9	—	68	—	Rhyl.
b, NORTH WALES	p Llandudno M	79	7th	49	2nd	69·5	52·8	60·6	+ 2·0	130	0	1	0·02	− 0·47	73·6	+28·9	63	+25	Llandudno.
	a Holyhead	69	7th	49	2nd	64·6	53·0	58·4	+ 1·2	115	0	2	0·14	− 0·40	72·3	—	63	—	Aberdovey.
	p Bettws-y-Coed	81	6th	44	3rd	70·1	50·4	59·6	+ 0·7	123	0	2	0·03	—	67·8	—	58	—	Bettws-y-Coed.
															72·5	—	63	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	83	7th, 8th	40	3rd	72·8	47·2	59·1	+ 2·0	120	0	0	0·00	—	69·9	—	61	—	Llangammarch Wells.
	a Pembroke	82	8th	49	2nd, 3rd	67·0	52·7	59·4	+ 2·2	122	0	0	0·00	− 0·52	72·4	+22·3	64	+20	Pembroke.
	p Cardiff	85	7th	46	3rd	72·8	52·1	61·7	+ 1·8	138	0	0	0·00	− 0·65	86·3	—	76	—	Cardiff.
															77·0	+26·0	68	+23	Tenby.
b, ENGLAND, S.W.	a Clifton	87	8th	50	2nd, 3rd	74·7	54·9	64·1	+ 3·7	155	0	0	0·00	− 0·60	83·9	—	74	—	Clifton.
	a Shaftesbury M	87	8th	45	3rd, 4th	73·9	51·8	62·1	+ 3·7	141	0	0	0·00	− 0·56	*	*	*	*	* *
	a Arlington	83	7th	46	3rd	71·1	51·1	60·4	+ 3·5	129	0	0	0·02 ‖	− 0·80	86·4	+37·4	76	+33	Newquay.
	a Cullompton M	90	8th	44	3rd	78·0	50·9	63·5	+ 4·3	151	0	0	0·00	− 0·58	79·3	+35·3	70	+31	Cullompton.
	a Portland Bill	76	8th	51	4th	68·9	56·0	62·0	+ 3·3	140	0	0	0·00	—	85·7	—	76	—	Weymouth.
	p Plymouth	83	8th	47	3rd	69·7	54·0	61·3	+ 1·5	135	0	1	0·01	− 0·56	91·8	+44·2	81	+39	Plymouth.
	p Falmouth	79	8th	53	2, 3, 4th	68·5	56·1	61·9	+ 2·9	139	0	0	0·00	− 0·60	91·6	+40·2	81	+36	Falmouth.
															94·2	—	83	—	Salcombe.
															93·5	+40·8	83	+36	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	67	5th	48	2nd	58·9	51·6	55·0	− 0·5	91	0	5	0·44	− 0·14	*	*	*	*	* *
	a Blacksod Point	67	8th	46	2nd	60·9	51·3	55·8	− 0·8	97	0	3	0·53	− 0·11	*	*	*	*	* *
	p Markree Castle	74	7th	42	2nd	64·6	50·0	56·8	+ 1·0	104	0	3	0·85	+ 0·13	31·9	− 1·6	27	− 1	Markree Castle.
	a Birr Castle	79	7th, 8th	41	2nd	69·6	48·1	58·1	+ 0·5	113	0	1	0·01	− 0·59	51·4	+16·1	44	+14	Birr Castle.
b, East.	p Armagh	75	8th	42	2nd	66·7	50·4	58·0	+ 1·3	112	0	2	0·43	− 0·20	32·1	− 4·4	27	− 4	Armagh.
	a Donaghadee	70	5th	50	2, 3, 4th	64·7	52·4	58·1	+ 1·6	113	0	3	0·32	− 0·27	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City	76	6th	46	2nd	69·6	52·7	60·6	+ 0·9	130	0	2	0·02	− 0·48	38·3	− 4·5	33	− 4	Phœnix Park.
	a Kilkenny	82	7th, 8th	42	2nd, 3rd	73·0	48·7	60·0	+ 1·1	126	0	0	0·00	− 0·58	*	*	*	*	* *
	a Waterford	82	8th	44	2nd	72·3	49·7	60·2	+ 1·5	127	0	0	0·00	− 0·70	*	*	*	*	* *
	a Birr Castle	79	7th, 8th	41	2nd	69·6	48·1	58·1	+ 0·5	113	0	1	0·01	− 0·59	51·4	+16·1	44	+14	Birr Castle.
b, West.	a Foynes	77	8th	46	2nd	66·8	50·4	58·0	− 0·1	112	0	0	0·00	− 0·69	*	*	*	*	* *
	a Cahir M	84	8th	43	2nd	74·1	48·5	60·4	+ 2·0	129	0	0	0·80	—	*	*	*	*	* *
	a Killarney	86	8th	47	3rd, 6th	72·9	49·7	60·5	+ 2·8	130	0	1	0·01	− 0·68	*	*	*	*	* *
	a Valencia	78	8th	50	2, 3, 6th	65·0	51·7	57·9	+ 0·3	111	0	1	0·01	− 0·80	61·0	+21·5	54	+19	Valencia.
	a Roche's Point	70	8th	48	2nd, 3rd	64·4	51·6	57·6	− 0·5	109	0	1	0·02	− 0·62	71·5	—	63	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	78	8th	50	3rd, 4th	67·0	52·9	59·5	− 0·2	123	0	0	0·00	− 0·47	85·2	+31·2	76	+28	Scilly.
	a Jersey, St. Aubins	85	7th, 8th	49	5th	74·1	56·0	64·4	+ 3·7	157	0	0	0·00	− 0·50	96·5	+40·5	86	+36	St. Helliers.
	a Guernsey	81	8th	48	4th	70·7	53·9	61·7	+ 1·5	138	0	0	0·00	− 0·49	97·1	+39·9	87	+36	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 95·3 hrs. (+43·2 hrs.), 84 % (+38 %); *Bournemouth*, 85·9 hrs., 76 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	53·3	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	52·2
	Crathes	1	30	58·5	53·5
	Balmoral	0	32	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	37	57·0	—
2.	Cockle Park	0	39	57·7	53·5
	Durham	0	38	—	—
	York	—	—	59·0	55·2
	Hull	0	42	59·9	53·6
	Lincoln	—	—	59·7	55·0
	Rauceby	0	41	62·9	56·6
3.	Norwich	0	40	—	—
	Yarmouth	—	—	63·3	59·0
	Lowestoft	0	40	62·9	57·3
	Cambridge	0	40	64·6	58·4
	Clacton-on-Sea ..	0	40	61·0	57·3
	Southend	0	45	63·0	—
	Tottenham	0	45	—	59·1

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	37	56·5	54·4
	Huddersfield ..	0	38	59·7	54·0
	Buxton	—	—	—	—
	Sheffield	0	40	59·2	53·5
	Nottingham.. ..	0	40	63·3	56·6
	Birmingham.. ..	0	38	56·1	51·6
	Oxford	0	—	—	—
	Hereford	0	38	—	—
	Cirencester	0	38	60·9	55·5
	Bath	—	—	63·0	58·5
5.	Margate	0	48	62·1	57·4
	Greenwich	0	35	—	—
	Westminster ..	0	44	—	—
	Kew	0	37	62·9	56·3
	Canterbury	0	42	59·8	58·1
	Tunbridge Wells ..	0	41	65·2	—
	Wisley	0	38	64·4	58·3
	Worthing	0	41	64·3	58·3
	Portsmouth	0	42	65·5	59·4
6.	Glasgow	0	34	—	—
	Rothesay	—	—	—	53·9
	Colmonell	0	39	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	33	59·9	57·1
	Douglas	0	39	—	—
7.	Aspatria	0	34	58·3	53·4
	Newton Rigg ..	0	34	58·9	54·0
	Burnley	0	36	57·1	53·1
	Southport	0	42	63·5	58·9
	Manchester City ..	0	40	59·2	57·0
	Bettws-y-Coed ..	0	43	58·1	54·0
8.	Llangammarch Wells	1	29	59·1	52·7
	Cardiff	0	40	62·6	56·9
	Clifton	0	46	—	—
	Plymouth	0	38	65·5	—
9.	Armagh	0	36	58·5	55·1
	Markree	0	36	58·	54·9
10.	Dublin, Trin. Coll. ..	0	41	59·4	56·4
11.	Guernsey, Brooklyn	0	37	63·5	59·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	48	51·5
	Kirkwall	52	50	51·2
	Wick	53	51	51·9
SCOTLAND E.	Cromarty	59	55	57·3
	Pennan Bay	56	52	54·3
	Aberdeen, Cove Bay ..	54	52	53·1
ENGLAND, N.E.	Burnmouth, Berwick ..	53	51	52·0
	Scarborough	60	52	56·1
ENGLAND, E.	Shipwash Lightship ..	62	59	60·1
	Margate‡	65	61	61·7
ENGLAND, S.E.	Eastbourne‡	65	60	61·9

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	53	51	52·1
	Ballantrae	56	52	53·9
ENGLAND, N.W.	Port Erin	57	53	54·3
ENGLAND, S.W.	Newquay	62	60	61·0
	Scilly	59	56	57·5
	Plymouth‡	60	60	59·9
	Salcombe	59	54	56·6
IRELAND, N.W.	Sheephaven	57	57	57·0
	Teelin	63	55	57·3
IRELAND, S.W.	Cleggan	58	51	55·0
IRELAND, E.	Seafield	63	55	58·5
	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ≥⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

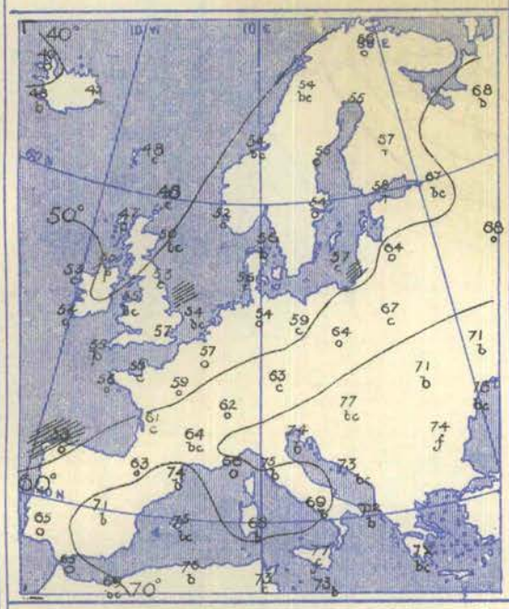
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 2nd July, 1911.

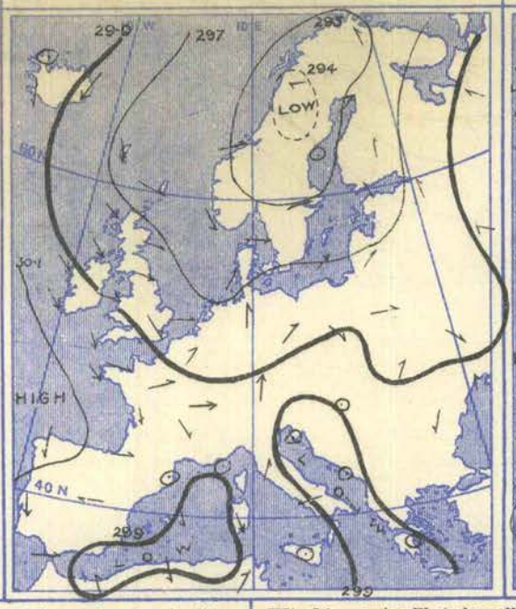
Temperature and Weather.

7 a.m.

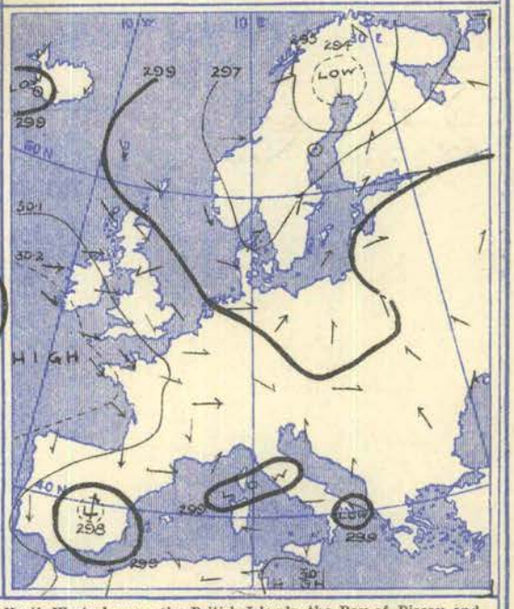


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair over the British Islands generally, but showery in a few localities, cloudy or dull over the western and north-western parts of the Continent, with rain in places, fine over south-eastern Europe and the Mediterranean, fog locally at Bucharest and Palermo. Rain falling during day all over northern Europe, in some central and south-eastern countries, as well as in our own northern and eastern districts; amounts small in our Islands, but considerable on the Continent, as much as half an inch at Blaavands Huk, 0·8 in. at Lugano and 1 in. at Kharkov.

Temperature fallen slightly at our own western and northern stations and over the Baltic, but changed irregularly over the Continent generally. Morning readings about 40° at most of the Icelandic stations, between 46° and 56° over our Islands and north-western Europe generally, but above 70° at most stations in south-eastern and southern Europe. Maxima below 60° at most of our western and northern stations during day, but about 65° in the south-eastern quarter, about 70° on the Continent generally, about 90° at several Spanish and Italian stations, and as high as 109° at Biskra (Algeria).

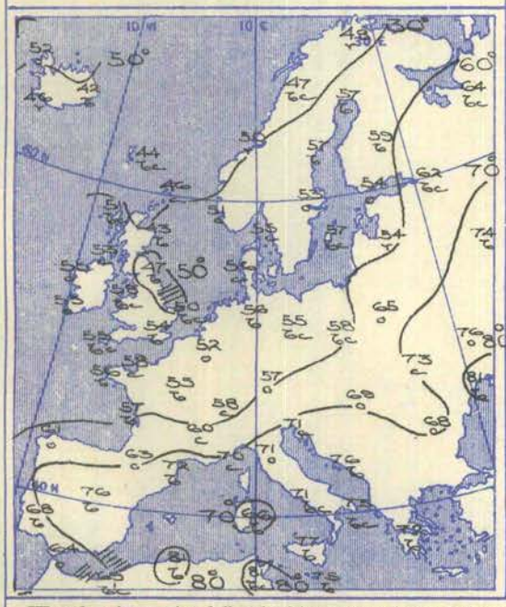
Wind in morning Westerly or North-Westerly over the British Islands, the Bay of Biscay and western coast of the Spanish Peninsula, light or moderate in force as a rule, but strong at Spurn Head, Southerly or South-Westerly over Central and northern Europe, light to moderate or fresh generally, but a fresh gale at Wisby, variable over Russia and the Mediterranean countries; North-Easterly in Iceland. Gale at Wisby subsiding during day, but a strong breeze springing up at Hermanstadt, little other change.

Barometer in morning highest 30·1 in. to 30·4 in. and upwards from the Bay of Biscay to the Azores; lowest about 29·4 in. in a depression over the north of Scandinavia, and about 29·9 in. in two shallow disturbances over the Mediterranean region. Scandinavian depression moving north-eastwards during day and barometer rising over western Europe generally; fresh low pressure system appearing over the west of Iceland and a further one developing over Central Spain.

Monday, 3rd July, 1911.

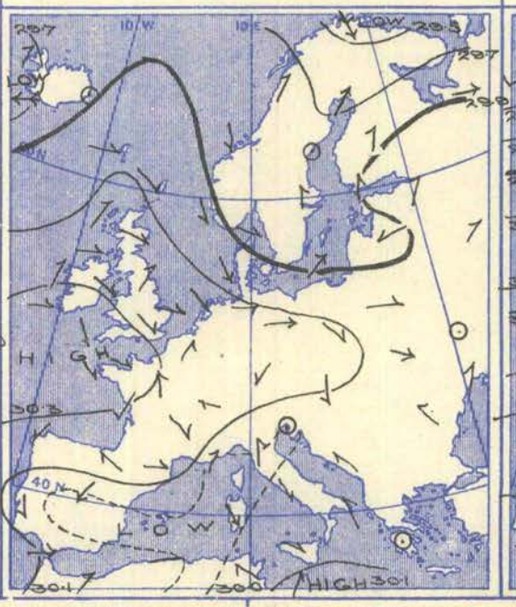
Temperature and Weather.

7 a.m.

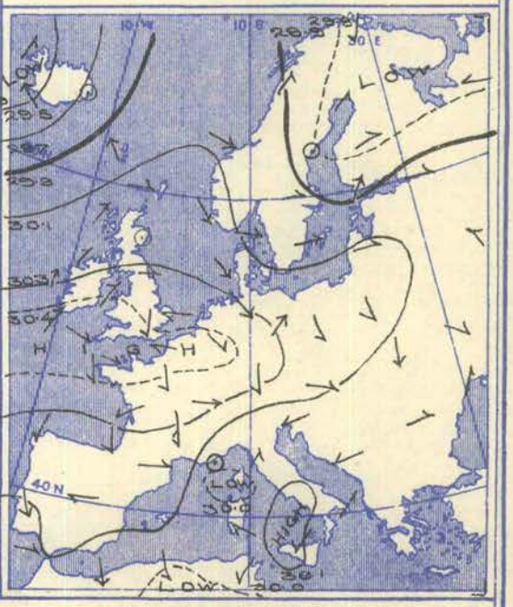


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning dull and misty on our extreme western coasts, but fine and bright over the British Islands generally; fine in the east of Iceland, dull and rainy in the west; fair to fine and bright over the Continent as a whole, but dull locally, and rainy at Riga, Vienna and Kharkov. Rain falling during day at many stations in northern, central and eastern Europe, largest measurement, 0·7 in. at Helsingfors, small amounts at our own western and northern stations.

Temperature fallen over the east of England as well as over the greater part of the Continent risen a little at our western and northern stations. Morning readings below 50° at many stations in the north of our area, and below 60° over the greater part of north-western Europe, above 70° over the southern and eastern countries generally, and about 80° in a few places. Maxima during day still below 60° at many of our western and northern stations, but nearly 70° at some places in the south; above 80° in most southern continental countries, and as high as 96° at Cagliari, 111° at Biskra (Algeria).

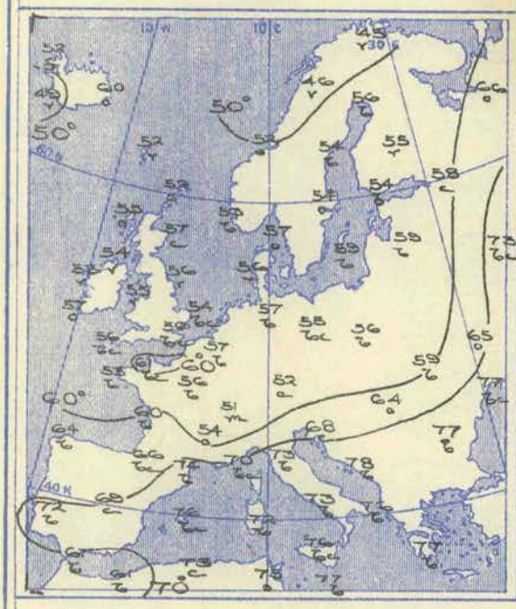
Wind in morning North-Westerly over England, Westerly or South-Westerly in Scotland and Ireland, light generally but strong at Spurn Head., North-Westerly to Westerly or South-Westerly over northern Europe and Germany, a gale at Vardo and strong breezes at several other stations. Calm or variable over the south-eastern countries, but North-Easterly, light to moderate over the Spanish Peninsula. South-Westerly wind on our north-west coasts increasing somewhat during day, but wind at Spurn Head falling light; gale at Vardo also decreasing; little change over our area as a whole.

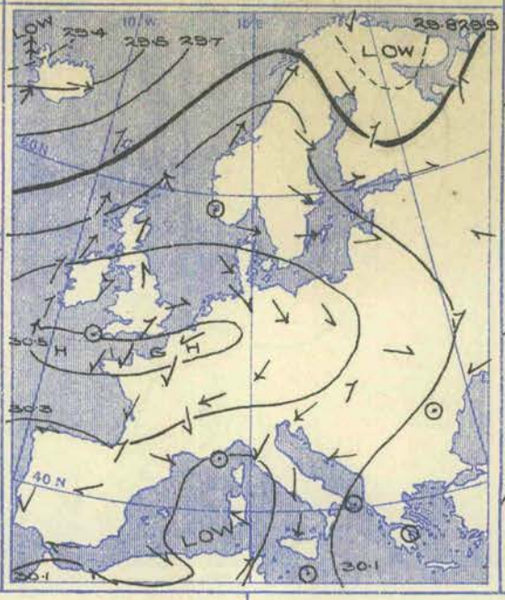
Barometer in morning 30·2 in. to 30·4 in. and upwards in a high-pressure area extending from the Azores and covering the greater part of the United Kingdom, France and western Germany: lowest, 29·5 in. and less, in a depression over Finmark, 29·7 in. and less off the west of Iceland, and below 30·0 in. in a shallow system over the Mediterranean. Barometer falling during day in Iceland as the depression in that neighbourhood moved northward, the change being felt to some extent on our north-west coasts, but pressure increasing over western and north-western Europe as a whole.

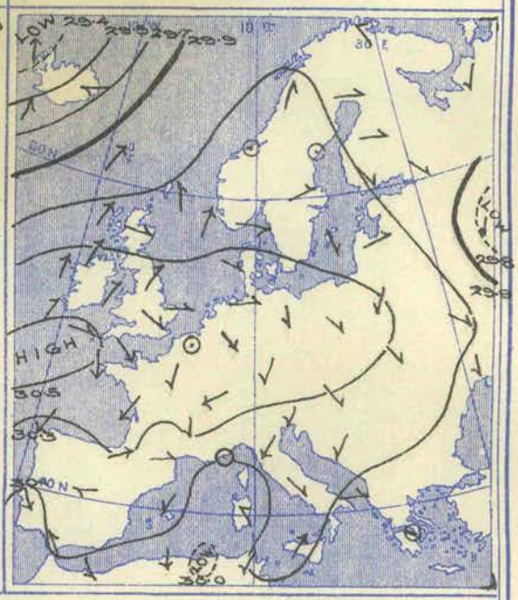
Tuesday, 4th July, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning cloudy or dull, with rain in many places, in Iceland, Faröe, Scotland, Ireland, and the extreme north of Europe, fair or fine over the greater part of England and the Continent, with fog at a few of the Mediterranean stations. Rain during day on our north and north-west coasts and at some north European stations, largest amount 0·3 in. at Blacksod Point; remaining fine over our area as a whole.

Temperature risen over the British Islands, fallen over central Europe, changed rather irregularly in other parts of our area. Morning readings 50° or below in the west of Norway, between 55° and 60° over our Islands and western Europe generally, and above 70° over south-eastern Europe and the Mediterranean. Rising to 70° and upwards during day at many places in the south and east of Great Britain, the highest reading being 76° at Aberdeen. Maxima over the southern continental countries generally between 80° and 90°.

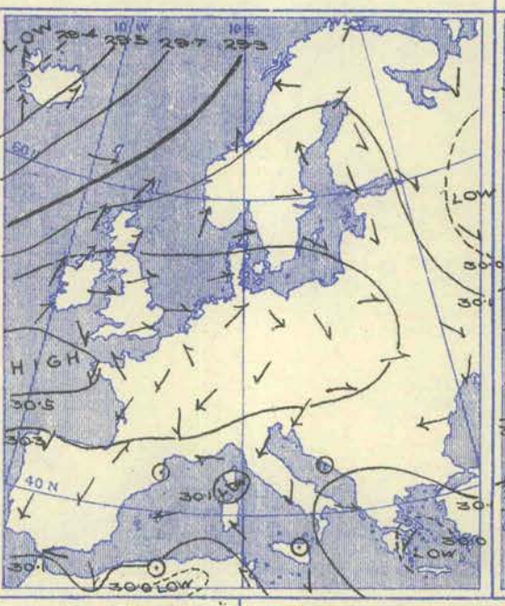
Wind in morning South-Westerly (South to West) over the British Islands and Norway and moderate to a gale from the same quarter in Iceland. North-Westerly, strong in places over Sweden and the Baltic, variable in Russia. Generally North-Easterly over France and the southern continental countries, light in force as a rule, but a strong or high wind blowing in Sicily and the Balearic Islands. Decreasing in force later in day at the Mediterranean and Icelandic stations; very little change over our Islands and western Europe generally.

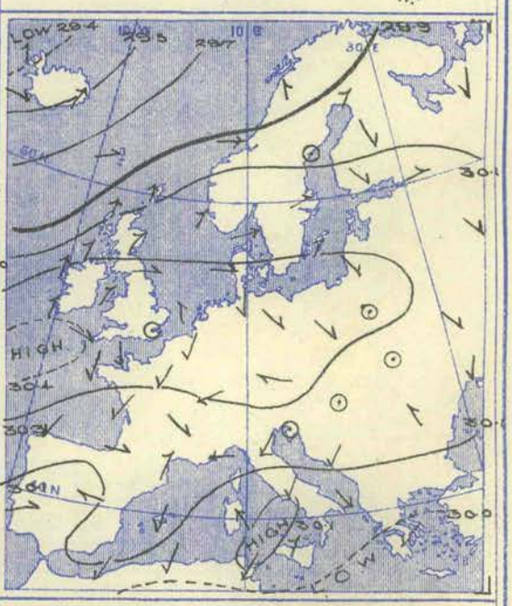
Barometer in morning highest 30·5 in. and upwards in the central parts of an anticyclone covering the English Channel, the north of France and the Low countries. Lowest 29·5 in. to 29·4 in. and less in a depression over Iceland, 29·8 in. and less in the north of Russia, and 30·1 in. and less in a shallow system over the Mediterranean and northern Africa. Very little change in the distribution of pressure over western Europe during day.

Wednesday, 5th July, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.





Weather in morning fair or fine over Great Britain and the major portion of the Continent, but dull with misty drizzle or wet fog in places along our western seaboard, rainy locally at Vardö and Breslau, and overcast over Poland and the countries bordering on the Black Sea. Considerable rain, 0·5 in. to 0·6 in. in places, in the Hebrides, Shetland, and west of Norway, and smaller amounts in isolated and distant parts of the Continent, remaining fine over all the nearer countries and at nearly all our own stations.

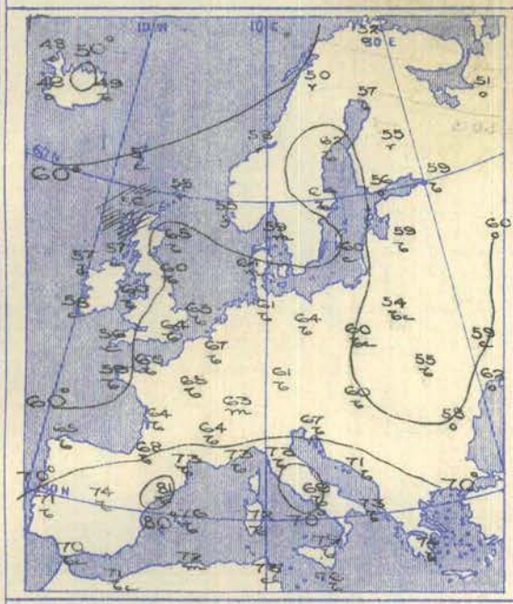
perature risen over the British Islands and western Europe generally, fallen considerably Russia and Austria Hungary. Morning readings below 50° at some places in Iceland and far north of Europe, and below 60° over a large part of Russia and central Europe, as as on our western coasts, but above 60° over Great Britain generally and above 70° over uthern part of our area. Maximum during day only 56° at Castlebay, but thermometer ¢ 70° to 75° over Great Britain generally, 80° at Oxford and in London, and 81° at ·. Over the southern parts of the Continent maxima of 80° to 90° were general.

Wind in morning light to fresh from South or South-West along our extreme western coasts, in Iceland and Scandinavia generally, light or moderate from West over England, light to fresh or strong from between North and East over the central and southern continental countries as a whole, light from North or North-West over Russia and the Baltic. Very little change occurring during day.

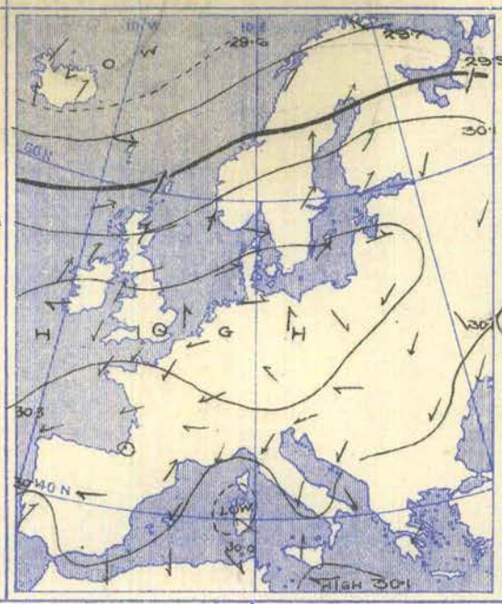
Barometer in morning highest 30·4 in. to 30·5 in. in an anticyclone stretching from the Atlantic across the south of England and the north of France to central Germany. Lowest about 30 in. in three shallow systems lying respectively over eastern Russia, over Greece and over Algeria, and 29·8 in. to 29·4 in. and less in a depression over Iceland. Depression over Russia disappearing by evening and Icelandic disturbance spreading eastwards to northern Scandinavia, but very little change in the distribution of pressure over western Europe.

Thursday, 6th July, 1911.

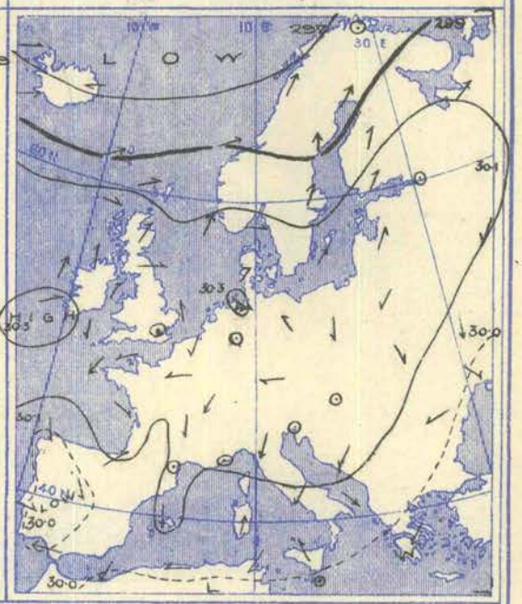
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fine over the greater part of our area, but overcast in a few places, dull and rainy in the Hebrides, Shetland and on the west coast of Norway, misty or foggy in some localities. Slight rain falling during day at several of our northern and north-western stations and in the south of Russia, larger quantities in the west of Norway, 1 in. at Bodö.

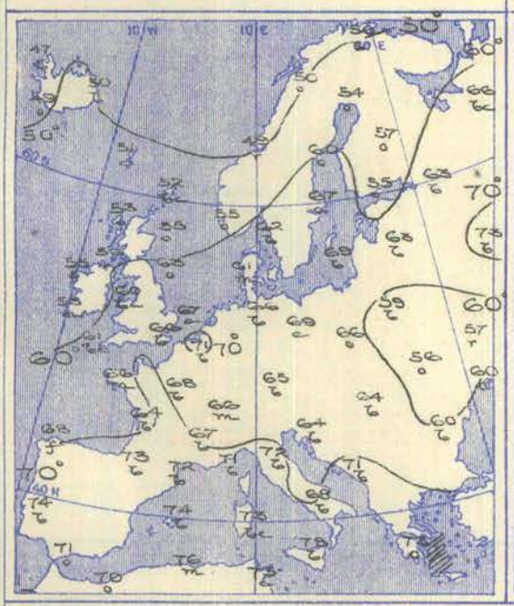
Temperature fallen at most of our northern and north-western stations and also over Italy and the Balkan Peninsula, risen over the south and east of England and on the Continent generally. Morning readings below 55° over Iceland, on many parts of our western and northern coasts and in Norway, above 65° over the greater part of England and the Continent, and above 70° in the far south. Maxima during day not reaching 60° on our extreme north-western coasts, exceeding 70° over England generally, and as high as 82° at Bath and Scarborough, and 84° at Oxford and in London; 90° and upwards at some Mediterranean stations and in Algeria.

Wind in morning calm or light variable over the Channel and the southern half of England, South-Westerly light to strong to the northward of that region; generally North-Easterly over the eastern and southern parts of our area, light as a rule, but strong in force locally at Leghorn. Veering to the North-Westward and decreasing on our extreme north-west coast later, little other change.

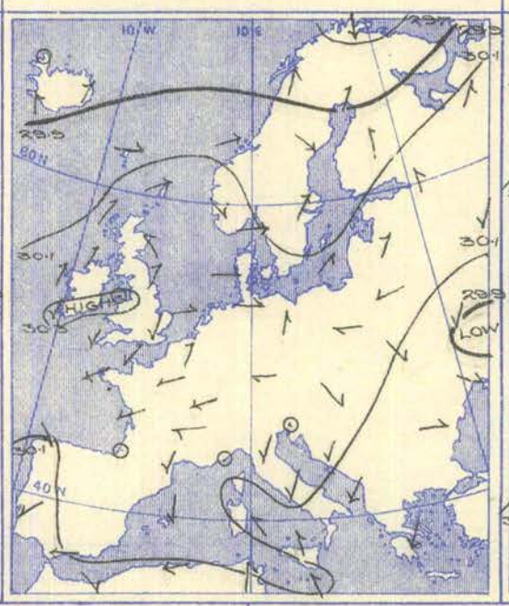
Barometer in morning highest 30·3 in. and upwards in a long band stretching from the Azores over the southern half of the United Kingdom and the Channel to eastern Russia. Lowest 29·6 in. and less in a depression over Iceland, and 30·0 in. and less in three shallow systems lying over the southern part of our area. Barometer rising during day in the Icelandic region and falling somewhat within the anticyclone; fresh fall also over Algeria.

Friday, 7th July, 1911.

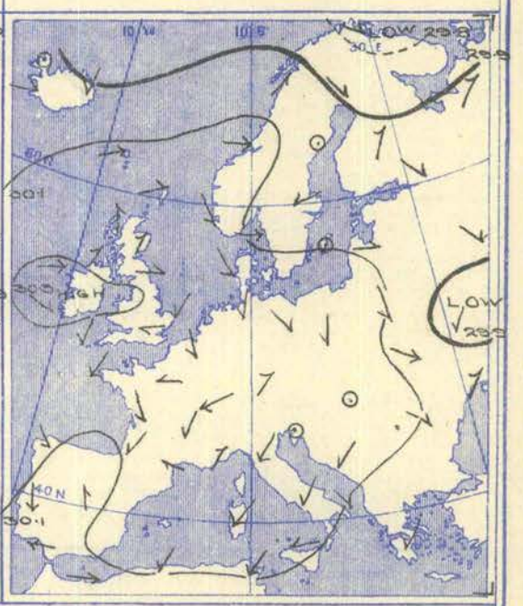
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning cloudy or dull, with rain in many places over Scotland, Ireland, and parts of northern and south-eastern Europe, fine over England and the Continent as a whole, fog locally at Corunna. Rain falling during day in Scotland and Norway and at a few isolated stations on the Continent, measurements nowhere large.

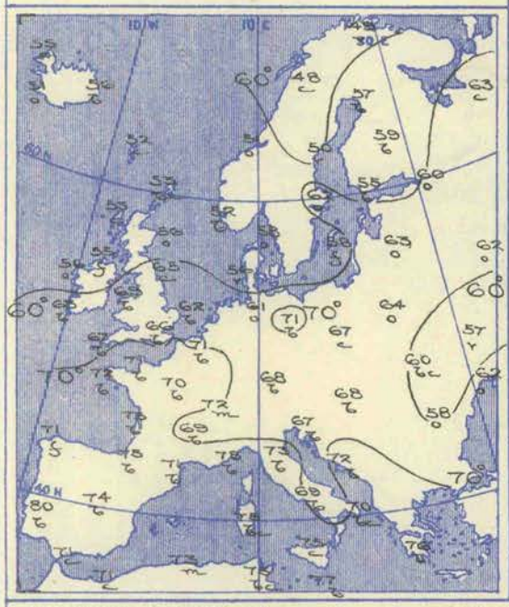
Temperature fallen in Scotland and the west of Ireland, risen over England, changed irregularly, but risen in most parts of the Continent. Morning readings ranging from a little above 50° in the north of our Islands to about 70° at some stations in the south, and on the Continent from about 50° in the north to above 75° at some of the Mediterranean stations. Maxima during day only about 56° at our extreme northern stations, but above 80° at many in the southern half of England, 84° at Nottingham and at Kew, 86° at Bath and 89° at Camden Square (London). 90° and upwards in many parts of France and Spain.

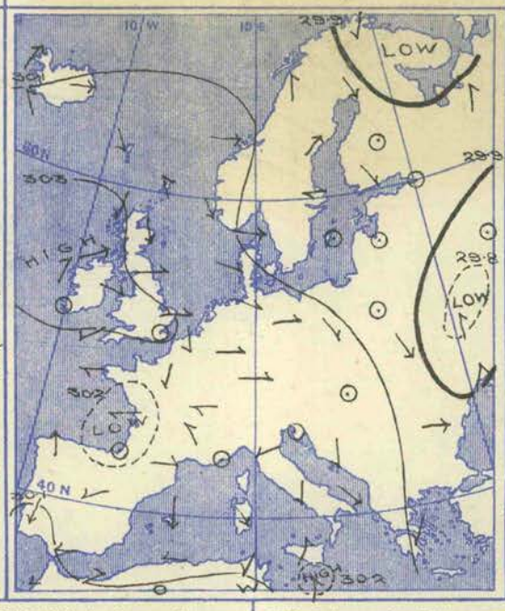
Wind light variable over the greater part of the British Isles, but South-Westerly to Westerly on our north-western coasts and over northern Europe generally. North-Easterly over the Channel, France, and the Mediterranean; a fresh breeze at Athens. Very little change taking place during day.

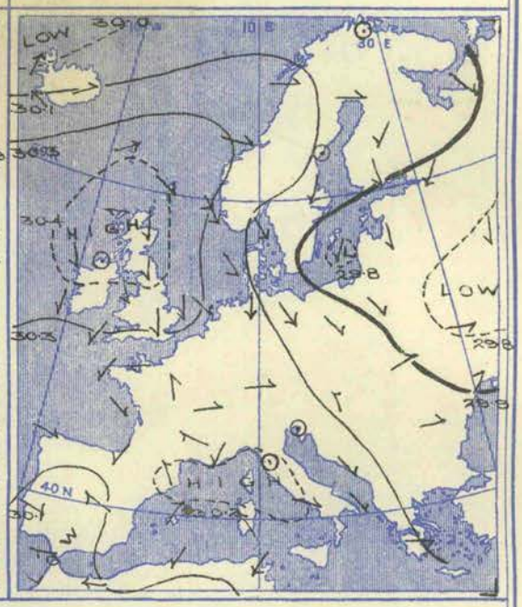
Barometer at 7 a.m. highest 30·2 in. to 30·3 in. and upwards, in an anticyclone embracing the whole of our Islands and the North Sea and a large part of the Continent. Lowest 29·7 in. and less in a depression over the north of Norway, 29·9 in. and less in another over southern Russia, and about the same value over central Algeria. Shallow disturbance passing across the north of Scotland during day, but very little change in the general distribution of pressure.

Saturday, 8th July, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair or fine over the greater part of the British Islands, France, Germany and southern Europe, but dull, with rain in places in many parts of Scandinavia and Russia. Foggy locally at Malin Head and Coruna. Rain falling at most of the Swedish stations during day, and also in Germany, Austria and southern Russia and slight showers at one or two of our own north-western stations.

Temperature fallen decidedly over Sweden and Denmark and slightly on our south-east coasts, risen in most other parts of our area. Morning readings below 55° over the northern part of our Islands and over Norway, but above 60° over a large part of north-western Europe and above 70° over the greater part of France and southern Europe. Maxima below 60° at many of our northern and north-western stations during day, but above 70° over the United Kingdom generally and above 80° over the southern half of England, 84° at Kew, 86° at Bath, and 90° at Camden Square (London), above 80° over the Continent as a whole and above 90° over central and western France.

Wind in morning light and variable over Ireland and the southern half of England, but light from West or North-West over the eastern half of Britain, over the North Sea and most of Scandinavia and Germany, light from South over the south of Russia, but Northerly to Easterly over France and the Mediterranean. Wind increasing to a strong wind or gale from the Northward at some Scandinavian stations later; becoming Northerly also on our own east coasts and North-Easterly over the Channel and south of England.

Barometer in morning highest 30·3 in. and upwards in an anticyclone spreading in from the Atlantic and covering Ireland and the west and south of England. Lowest 29·8 in. and less in a depression over Russia and 29·9 in. and less over Lapland. Barometer rising over the United Kingdom during day, the readings being above 30·4 in. over Scotland and the northern parts of Ireland and England by evening; small depression developing over the Baltic.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	June 26th, 10.0 a.m. to 10.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	287° 80% 290°, 9	286° 80% 290°, 11	282° 90% 295°, 17	278° 90% 300°, 17				275° 95% 300°, 17	1,300	Overcast. Clouds not reached. Wind estimated from pull on wire.
2	June 27th, 3.46 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	265°, 4		270°, 7	280°, 7	285°, 11	315°, 11	315°, 15			Some ci. and few small cu. Two theodolites to 2,000 m.
3	June 28th, 9.30 a.m. to 11.3 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	292° 60% 250°, 7	290·5° 60% 250°, 12	288·5° 70% 250°, 15	284° 90% 255°, 17				281·5° 100% 255°, 17	1,450	Clouds at various heights above 1,200 m. Temp. and humidity very variable.
4	June 29th, 9.57 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	290° 80% 225°, 6	289° 80% 215°, 10	287° 90% 230°, 12	288° 100% 235°, 14				283° 100% 235°, 15	1,200	Clouds at 800 m.
5	June 30th, 10.10 a.m. to 10.57 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288° 90% 200°, 6	287·5° 90% 200°, 14	286° 95% 225°, 17	284·5° 100% 240°, 18				283° 100% 250°, 19	1,300	Overcast. Clouds at 850 m. Light rain.
6	July 2nd, 10.15 a.m. to 12.15 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 65% 320°, 6·7	283°						276·5°	925	Alternating clear sky and heavy patches of Cu.-N. No clouds reached. Humidity varying between 65% and 85%, little change in wind direction, force never exceeding 9 m.p.s.
7	July 5th, 12.2 noon.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	260°, 2		235°, 2	220°, 2	305°, 3·5	60°, 3	35°, 4·5			Two theodolites. Some cu. Sudden change in direction at 1·3 km. Gradual change on to 2 km.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7
No. of Kites	1	—	1	1	1	1	—
Area of Surface (sq. ft.)	5	—	7	7	7	7	—
Capacity of Balloon (cub. ft.) ..	—	050	—	—	—	—	·013
Length of Wire (feet)	1,800	—	2,100	1,600	1,500	1,500	—

South Kensington, London, S.W. *July 12th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

225

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 28. TWENTY-EIGHTH WEEK, SUNDAY, JULY 9TH, TO SATURDAY, JULY 15TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d

I.—General Remarks.

Weather was very fine and dry generally, no rain being experienced except some slight falls in the north and west at the end of the week. Thunder was heard at Douglas on the 11th, and at Newcastle-on-Tyne on the evening of the 13th.

Temperature became high about the middle of the week, and did not fall again until Saturday. In several of the western districts the mean for the week was more than 5° above the average, but in England E. and N.E. the excess amounted to less than a degree. The highest of the maxima were recorded between the 12th and 14th, and varied from 89° in Scotland E., and 88° in England S.W. and Ireland S. to 83° in England E., and to 80° in the English Channel. The lowest of the minima occurred, as a rule, early in the week, and ranged from 36° in England N.E. and S.W. and 37° in Scotland E. to 44° in England E. and Scotland W., and to 54° in the English Channel. The lowest grass readings reported were 23° at Llangammarch Wells (on the 11th) and 29° at Crathes and 32° at Durham (on the 10th).

Mean Temperature of the Sea. On almost all parts of the coast the water was warmer than during the corresponding week of last year. The means for the week ranged from nearly 65° at Margate and Eastbourne, 63° at Seafield, and above 60° at some other western stations to 54° at Aberdeen, and to about 53° at Lerwick, Kirkwall and Wick.

Rainfall. Over the greater part of the Kingdom there was no rain, and the quantity that fell in the north was slight, the largest amounts being 0·35 in. at Gordon Castle and 0·31 in. at Baltasound.

Bright Sunshine was greatly in excess of the normal over the whole Kingdom; in some districts the number of hours recorded was more than double the average. In districts Nos. 2, 4, 6, 7, 8, 9 and 10 the values for the week exceeded any previously recorded for the corresponding week of the year and over the country generally the week was the finest experienced since the general establishment of Sunshine recorders in 1881. The percentage of the possible duration ranged from 85 in the English Channel, 82 in England S.W., and 81 in Ireland S. to about 72 in the eastern and central parts of England, and to 64 in Scotland N. At Plymouth and Bournemouth the percentage was as high as 89, and at Jersey and Cullompton it was as high as 88.

Barometer and Wind. The distribution was anticyclonic throughout, the centre of the high pressure system lying directly over the United Kingdom during the early days of the week, and subsequently off our north-west coasts, while on Saturday it was moving away in a south-westerly direction over the Atlantic. The winds were consequently light to moderate in force, and mainly from East or North-East in England and Ireland, but in Scotland they were more variable, sometimes blowing from the Westward. At the end of the period a light to moderate Northerly wind was prevalent over the whole Kingdom.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 220.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Moderate	Moderate	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Unusual
	Rainfall ...	Very light	Very light	Very light	Nought	Nought	Nought	Very light	Very light	Nought	Very light	Nought	Nought
	Sunshine ...	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 6 weeks from June 4th, 1911.	Warmth ...	2 * 2	2 * 2	3 * 2	3 * 2	3 * 2	3 * 2	2 * 2	2 * 2	3 * 2	2 * 2	2 * 1	3 * 1
	Rainfall ...	2 * 3	1 * 3	1 * 3	2 * 3	1 * 3	1 * 3	1 * 2	1 * 3	1 * 3	1 * 3	2 * 4	2 * 2
	Sunshine ...	3 * 1	3 * 2	3 * 2	3 * 2	3 * 2	3 * 2	2 * 2	4 * 2	4 * 2	3 * 2	3 * 2	4 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9810 450 Wy. & S., Ltd. 7—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-EIGHTH WEEK—July 9th to July 15th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	84	40	69·9	48·5	58·5	+ 3·8	116	+ 27	0	0	1	− 3	0·13	− 0·67	78	+ 48	64	+40
Eastern																		
1. SCOTLAND, EAST	89	37	75·0	47·3	60·2	+ 3·7	127	+ 25	0	0	1	− 3	0·09	− 0·62	84	+ 47	70	+39
2. ENGLAND, N.E.	85	36	71·5	49·0	59·5	+ 0·7	123	+ 5	0	0	1	− 3	0·01	− 0·47	85	+ 40	73	+34
3. ENGLAND, EAST	83	44	71·3	52·8	61·4	+ 0·7	136	+ 5	0	0	0	− 3	0·00	− 0·52	82	+ 33	72	+29
4. MIDLAND COUNTIES	87	38	77·1	49·9	62·6	+ 2·5	144	+ 17	0	0	0	− 3	0·00	− 0·50	81	+ 37	71	+32
5. ENGLAND, S.E.	86	40	76·1	52·5	63·5	+ 2·0	151	+ 15	0	0	0	− 3	0·00	− 0·47	87	+ 36	78	+32
Western																		
6. SCOTLAND, WEST	86	44	75·3	51·5	62·6	+ 5·4	144	+ 38	0	0	1	− 3	0·01	− 0·84	90	+ 50	76	+42
7. ENGLAND, N.W.	86	41	75·7	52·7	63·4	+ 4·5	150	+ 32	0	0	1	− 2	0·01	− 0·62	93	+ 50	80	+43
8. ENGLAND, S.W.	88	36	76·7	55·3	65·2	+ 5·4	162	+ 37	0	0	0	− 4	0·00	− 0·64	92	+ 46	82	+41
9 IRELAND, NORTH	86	42	72·1	51·2	60·9	+ 3·5	132	+ 24	0	0	1	− 4	0·01	− 0·72	93	+ 61	80	+53
10. IRELAND, SOUTH	88	43	78·2	53·4	64·9	+ 6·0	160	+ 42	0	0	0	− 3	0·00	− 0·69	92	+ 55	81	+49
11. ENGLISH CHANNEL	80	54	72·3	57·8	64·5	+ 3·3	158	+ 23	0	0	0	− 3	0·00	− 0·52	95	+ 38	85	+34

THE SEASON (Summer).—Aggregates, &c., for the Period of 6 Weeks, June 4th to July 15th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	84	35	*	*	*	*	481	− 2	0	− 2	21	− 2	3·89	− 0·29	257	+52	35	+ 7
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	562	+ 17	5	+ 4	19	− 1	3·12	− 0·26	309	+64	42	+ 9
2. ENGLAND, N.E.	85	32	*	*	*	*	646	+ 38	0	0	15	− 3	4·08	+1·43	325	+57	46	+ 8
3. ENGLAND, EAST	87	34	*	*	*	*	715	+ 29	0	0	14	− 3	2·54	− 0·26	344	+51	50	+ 7
4. MIDLAND COUNTIES.. ..	88	32	*	*	*	*	707	+ 30	0	0	14	− 3	2·16	− 0·71	322	+57	47	+ 8
5. ENGLAND, S.E.	88	32	*	*	*	*	742	+ 22	0	0	12	− 4	1·95	− 0·66	377	+76	55	+11
Western																		
6. SCOTLAND, WEST	86	31	*	*	*	*	592	+ 4	0	0	19	− 2	3·10	− 1·20	329	+70	46	+10
7. ENGLAND, N.W.	86	34	*	*	*	*	653	+ 14	0	0	18	− 1	3·10	− 0·19	348	+76	50	+11
8. ENGLAND, S.W.	90	30	*	*	*	*	727	+ 54	0	0	14	− 5	2·51	− 0·75	381	+93	56	+14
9. IRELAND, NORTH	86	31	*	*	*	*	582	− 10	0	0	17	− 7	2·39	− 1·43	299	+77	42	+11
10. IRELAND, SOUTH	88	36	*	*	*	*	699	+ 45	0	0	15	− 5	2·09	− 1·54	324	+78	47	+11
11. ENGLISH CHANNEL	85	46	*	*	*	*	753	+ 39	0	0	13	− 6	2·86	+0·23	412	+67	61	+10

THE YEAR.—Aggregates, &c., for the Period of 28 Weeks, January 1st to July 15th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	84	14	*	*	*	*	1026	+ 95	415	−142	112	−15	25·02	0·00	797	+ 98	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1151	+ 75	492	−128	101	− 3	12·65	−1·99	907	+ 94	36	+ 4
2. ENGLAND, N.E.	85	19	*	*	*	*	1331	+171	371	−104	84	−11	10·35	−0·78	900	+ 31	36	+ 1
3. ENGLAND, EAST	87	16	*	*	*	*	1490	+113	409	−112	88	− 4	10·36	−0·76	997	+ 69	40	+ 3
4. MIDLAND COUNTIES.. ..	88	14	*	*	*	*	1498	+102	415	−118	74	−17	8·34	−4·24	868	+ 36	35	+ 1
5. ENGLAND, S.E.	88	16	*	*	*	*	1529	+ 42	361	− 20	76	−11	9·98	−2·24	1045	+113	42	+
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1327	+147	347	− 78	96	−14	19·43	−2·69	936	+104	37	+ 4
7. ENGLAND, N.W.	86	17	*	*	*	*	1398	+135	314	− 72	85	−15	13·49	−2·09	974	+131	39	+ 5
8. ENGLAND, S.W.	90	13	*	*	*	*	1504	+ 66	297	− 4	83	−16	13·97	−3·37	1047	+122	42	+ 5
9. IRELAND, NORTH	86	18	*	*	*	*	1312	+ 60	302	− 43	92	−27	12·89	−4·89	927	+144	37	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	1595	+122	295	+ 36	99	− 7	13·98	−5·17	967	+ 99	39	+ 4
11. ENGLISH CHANNEL	85	28	*	*	*	*	1683	+ 50	135	+ 26	89	−17	11·70	−2·85	1160	+ 52	47	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	66	12th	42	9th	59·2	49·6	53·7	—	82	0	1	0·31	—	67·7	—	53	—	Baltasound.
	a Lerwick	70	11th, 12th	46	9th	63·0	51·1	56·6	+ 4·9	102	0	2	0·10	—	80·8	+48·7	65	+39	Deerness.
	a Stornoway	75	11th	43	9th	67·1	48·4	57·1	+ 3·4	106	0	1	0·15	− 0·52	81·6	+45·6	66	+37	Stornoway.
	a Castlebay, Barra Isd.	71	12th	47	9th	65·3	53·7	59·1	+ 2·7	120	0	1	0·01	—	80·1	—	67	—	Castlebay.
	a Wick	70	12th, 13th	40	9th	63·9	47·7	55·2	+ 1·1	92	0	2	0·24	− 0·33	*	*	*	*	*
b, Mainland.	p Strathpeffer.. ..	83	12th	44	14th	74·2	48·6	60·5	+ 4·8	130	0	1	0·01	− 0·61	81·4	+50·4	67	+42	Strathpeffer.
	p Glencarron .. S	80	11th	44	9th	73·0	48·1	59·7	+ 6·2	124	0	1	0·38	− 0·81	*	*	*	*	*
	p Fort Augustus S	84	12th	41	9th	71·4	45·6	57·6	+ 2·1	109	0	1	0·02	− 0·61	67·8	+42·7	56	+35	Fort Augustus.
	p Fort William S	84	12th, 13th	46	15th	77·0	50·2	62·7	+ 6·5	145	0	0	0·00	− 1·07	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	80	11th	40	9th	73·2	45·6	58·4	+ 1·9	115	0	2	0·35	− 0·35	79·5	—	66	—	Gordon Castle.
	a Nairn	81	12th	40	10th	72·0	46·1	58·1	+ 1·9	113	0	2	0·04	− 0·52	87·4	—	72	—	Nairn.
	a Aberdeen	75	13th, 14th	42	10th	71·0	47·7	58·5	+ 2·4	116	0	2	0·06	− 0·54	84·7	+46·5	70	+38	Aberdeen.
	a Balmoral .. S	88	13th	37	10th	79·1	45·0	60·9	+ 6·9	132	0	1	0·03	− 0·57	87·6	—	73	—	Crathes S.
	p Crieff .. .. S	89	12th	43	10th	82·2	49·2	64·8	+ 7·3	160	0	0	0·00	− 0·68	72·5	—	61	—	Balruddery.
	a Leith	81	14th	45	10th	73·1	50·9	61·2	+ 3·3	134	0	1	0·15	− 0·42	*	*	*	*	*
	p West Linton.. S	84	12th	35	10th	75·9	44·3	59·0	+ 3·7	119	0	1	0·04	—	—	—	—	—	West Linton.
	p Marchmont .. S	82	12th	43	10th	73·7	49·1	60·7	+ 4·5	131	0	1	0·05	− 0·65	87·9	+47·9	75	+41	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	78	12th	36	10th	71·0	45·4	57·3	+ 0·3	107	0	1	0·02	− 0·58	87·3	—	74	—	Cockle Park.
	a Shields	82	14th	43	10th	67·9	49·6	58·1	+ 0·9	113	0	0	0·00	− 0·53	72·8	+39·3	62	+34	Newcastle.
	p Durham	85	14th	36	10th	73·5	44·3	57·9	− 0·4	111	0	0	0·00	− 0·63	86·2	+47·5	74	+41	Durham.
	p Rounton .. M	84	14th	37	10th	71·4	44·6	57·1	− 0·2	106	0	1	0·02	− 0·54	*	*	*	*	*
	p Scarborough.. M	72	14th	52	9th, 11th	67·9	53·7	60·3	+ 1·8	128	0	1	0·07	− 0·45	87·7	—	76	—	Scarborough.
	p York	84	14th	43	10th	74·9	49·7	61·4	+ 1·8	136	0	0	0·00	− 0·55	85·3	+44·9	74	+39	York.
b, South.	a Spurn Head	71	14th	52	10th	65·9	54·3	59·7	+ 0·8	124	0	0	0·00	− 0·37	*	*	*	*	*
	a Lincoln	82	14th	44	11th	73·6	50·5	61·3	+ 0·8	135	0	0	0·00	− 0·50	91·4	—	80	—	Skegness.
	a Fulbeck	85	14th	43	11th	77·8	48·6	62·2	+ 2·0	141	0	1	0·02	− 0·48	84·2	—	73	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	68	12th, 14th	52	10th, 15th	65·4	53·6	59·1	− 0·4	120	0	3	0·03	—	80·2	—	70	—	Lowestoft.
	p Hillington .. M	83	14th	44	11th	72·5	49·4	60·2	+ 0·3	127	0	0	0·00	− 0·59	82·1	—	71	—	Cromer.
	a Yarmouth	70	13th	54	11th	66·9	56·0	61·1	+ 1·6	134	0	0	0·00	− 0·53	90·4	+44·9	79	+39	Hillington.
	a Norwich	78	14th	49	11th	70·6	53·0	61·2	+ 1·3	134	0	0	0·00	—	78·1	—	69	—	Yarmouth.
	p Geldeston	75	12, 13, 14th	46	11th	70·3	52·1	60·6	+ 0·9	130	0	0	0·00	− 0·49	*	*	*	*	*
	p Cambridge	80	14th	47	11th	73·7	51·1	61·6	+ 0·4	137	0	0	0·00	− 0·51	80·5	+32·3	71	+28	Geldeston.
b, South.	a Felixstowe	79	13th	49	11th	71·7	54·1	62·3	+ 1·4	142	0	0	0·00	—	80·1	+32·8	70	+29	Cambridge.
	a Clacton-on-Sea ..	79	12th, 13th	49	11th	71·0	54·3	62·1	+ 1·4	141	0	0	0·00	—	89·4	—	79	—	Felixstowe.
	a Rothamsted ..	80	14th	47	10th	74·5	51·6	62·3	+ 2·5	142	0	0	0·00	—	86·3	—	76	—	Clacton.
	a Shoeburyness ..	82	12th	50	11th	74·6	53·4	63·3	+ 0·7	149	0	0	0·00	− 0·54	77·9	+30·0	69	+27	Rothamsted.
	p Tottenham	83	14th	49	10th	76·7	54·0	64·6	+ 3·0	158	0	0	0·00	− 0·40	77·8	—	69	—	Southend.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	85	14th	41	10th	73·8	49·4	60·8	+ 3·4	132	0	0	0·00	—	81·0	—	72	—	Tottenham.
	a Bawtry	85	14th	41	10th, 11th	77·1	47·6	61·3	+ 1·5	135	0	0	0·00	− 0·54	89·7	—	77	—	Harrogate.
	p Buxton .. M	81	12th, 13th	38	11th	75·7	47·7	60·7	+ 3·9	131	0	1	0·01	− 0·49	79·1	+41·1	69	+36	Worksop.
	a Nottingham ..	84	14th	43	11th	76·1	49·6	61·9	+ 1·5	139	0	0	0·00	− 0·82	91·7	—	80	—	Buxton.
	p Birmingham, Edgbsn	85	14th	46	10th	77·4	53·9	64·8	+ 5·4	160	0	0	0·00	− 0·50	79·9	—	70	—	Nottingham.
	a Raunds .. M	82	14th	43	11th	75·8	49·0	61·5	+ 0·8	137	0	1	0·01	− 0·49	73·0	—	64	—	Birmingham.
b, West.	a Oxford	84	12, 13, 14th	46	10th	78·0	52·3	64·3	+ 3·5	156	0	0	0·00	—	*	*	*	*	*
	a Cheadle .. M	82	12, 13, 14th	43	11th	75·8	49·4	61·7	+ 4·0	138	0	0	0·00	− 0·55	81·0	+35·0	72	+31	Oxford.
	p Shrewsbury	87	13th, 14th	38	11th	80·1	47·5	62·7	+ 3·5	145	0	0	0·00	− 0·61	76·3	—	66	—	Sheffield.
	a Hereford .. M	85	14th	39	11th	78·0	48·2	62·1	+ 2·0	141	0	0	0·00	—	*	*	*	*	*
	a Cirencester	84	14th	45	10th, 11th	77·1	51·2	63·2	+ 4·1	148	0	0	0·00	− 0·50	*	*	*	*	*
	a Bath	86	14th	44	11th	79·4	50·3	63·8	+ 3·4	153	0	0	0·00	− 0·57	78·7	+33·7	70	+30	Cirencester.
LONDON .. — ..	a Westminster ..	83	14th	52	10th	78·0	56·1	66·3	+ 4·5	170	0	0	0·60	− 0·57	91·3	—	81	—	Bath.
	a Greenwich	85	14th	49	10th	78·3	55·0	64·8	+ 2·1	160	0	0	0·00	− 0·50	88·1	—	79	—	Ramsgate.
5. ENGLAND, S.E... ..	p Kew	82	14th	50	10th	75·6	54·4	64·3	+ 3·0	156	0	0	0·00	− 0·52	83·1	+36·5	74	+32	Kew.
	a Marlborough ..	85	14th	40	11th	77·9	46·5	61·1	+ 1·8	134	0	0	0·00	− 0·57	84·5	+41·8	75	+37	Marlborough.
	a Margate												0·00	—	—	—	—	—	Margate.
	a Wisley, Surrey ..	83	14th	46	10th, 11th	77·1	50·8	63·0	+ 0·9	147	0	0	0·00	—	82·5	—	74	—	Wisley.
	a Swarraton .. M	82	14th	45	10th, 11th	76·5	49·4	62·0	+ 2·6	140	0	0	0·00	− 0·53	89·2	—	80	—	Worthing.
	a Tunbridge Wells M	82	13th	48	10th	75·7	52·2	63·1	+ 2·7	148	0	0	0·00	− 0·50	88·3	+40·7	79	+36	Tunbridge Wells.
	a Dungeness	78	13th	50	15th	69·7	55·0	61·8	+ 1·3	139	0	0	0·00	− 0·38	83·3	—	74	—	Littlestone.
	p Hastings	81	13th	50	11th	75·2	54·5	64·1	+ 3·7	155	0	0	0·00	− 0·48	95·5	+41·2	85	+37	Hastings.
	p Southampton ..	86	14th	49	10th, 11th	80·0	54·6	66·4	+ 4·2	171	0	0	0·00	− 0·52	91·2	+40·9	81	+37	Southampton.
	a Ventnor	83	13th	51	9th, 11th	77·2	55·4	65·5	+ 4·1	165	0	0	0·00	− 0·48	89·2	+41·0	80	+37	Ventnor.
															92·4	+38·4	83	+34	Eastbourne.
															81·1	+40·3	72	+36	Westminster.
															82·3	+31·3	74	+28	Greenwich.
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	80	11th	45	9th	73·3	49·1	60·4	+ 3·0	129	0	1	0·09	− 0·78	*	*	*	*	*
	a Glasgow	85	12th	48	10th	76·9	53·2	64·2	+ 7·0	155	0	0	0·00	− 0·69	81·6	+47·6	69	+40	Glasgow.
	p Rothesay .. S	84	12th	49	11th	76·6	52·1	63·5	+ 6·1	151	0	1	0·01	− 0·86	*	*	*	*	*
	a Kilmarnock	81	12th, 13th	44	11th	74·6	48·4	60·6	+ 3·1	130	0	1	0·01	—	84·6	—	72	—	Kilmarnock.
	a Colmonell	82	12th	47	10, 11, 13th	72·8	49·4	60·3	+ 3·2	128	0	0	0·00	− 0·69	*	*	*	*	*
	p Dumfries .. S	86	12th	44	10th	78·4	52·9	64·8	+ 6·3	160	0	0	0·00	− 0·70	96·1	—	81	—	Dumfries.
	p Cally, Gatehouse S	83	13th	45	10th	77·9	51·3	63·7	+ 6·3	152	0	0	0·00	− 0·80	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	79	12th	51	10th	72·2	55·2	63·1	+ 6·4	148	0	0	0·00	− 0·67	97·9	+51·4	84	+44	Douglas.
															85·2	—	74	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	84	12th	41	10th	77·1	49·6	62·4	+ 5·8	143	0	1	0·02	− 0·76	100·2	—	86	—	Aspatria.
	p Newton Rigg ..	86	12th	42	11th	77·7	48·5	62·1	+ 5·6	141	0	1	0·01	− 0·63	100·4	+58·5	86	+50	Newton Rigg.
	p Stonyhurst	84	12th	47	10th, 11th	76·8	53·4	64·3	+ 5·9	156	0	0	0·00	− 0·83	95·8	+53·8	83	+46	Stonyhurst.
	p Blackpool .. M	77	12, 13, 14th	45	10th	74·4	52·3	62·6	+ 3·9	144	0	0	0·00	− 0·60	97·7	+54·3	84	+47	Blackpool.
	p M'nch'ster, Prestwich	85	12th, 14th	46	11th	78·6	52·7	64·7	+ 6·3	159	0	0	0·00	− 0·70	90·4	+52·9	79	+46	Prestwich.
	a Liverpool (Bidston)	77	12th, 14th	50	10th, 11th	72·3	56·4	63·8	+ 3·9	153	0	0	0·00	− 0·58	85·7	—	75	—	Liverpool.
	a Hawarden Bridge ..	80	12th, 14th	46	11th	75·2	54·1	63·9	+ 4·3	153	0	1	0·02	− 0·45	91·6	+46·0	79	+40	Southport.
															89·1	—	78	—	Rhyl.
b, NORTH WALES ..	p Llandudno .. M	82	12th, 13th	52	10th	76·6	56·0	65·6	+ 6·3	165	0	1	0·02	− 0·48	90·3	+47·2	79	+41	Llandudno.
	a Holyhead	72	9th	51	12th	68·0	54·0	60·5	+ 2·8	130	0	0	0·00	− 0·55	90·2	—	79	—	Aberdovey.
	p Bettws-y-Coed ..	83	11, 12, 13th	43	11th	80·3	50·0	64·1	+ 5·2	155	0	0	0·00	—	81·9	—	71	—	Bettws-y-Coed.
															84·3	—	75	—	Aberystwyth.
															82·0	—	73	—	Llangammarch Wells.
8. — a, SOUTH WALES ..	a Llangammarch Wells	83	12, 13, 14th	36	11th	79·1	44·4	60·5	+ 2·8	130	0	0	0·00	—	91·7	+43·3	81	+38	Pembroke.
	a Pembroke	82	13th	52	11th	73·4	57·0	64·6	+ 6·9	158	0	0	0·00	− 0·54	94·1	—	83	—	Cardiff.
	p Cardiff	83	13th, 14th	47	11th	77·7	53·5	64·8	+ 4·3	160	0	0	0·00	− 0·68	92·8	+43·5	82	+39	Tenby.
b, ENGLAND, S.W. ..	a Clifton	86	12, 13, 14th	50	11th	80·4	56·1	67·4	+ 6·2	178	0	0	0·00	− 0·62	92·4	—	82	—	Clifton.
	a Shaftesbury .. M	84	14th	46	10th	76·9	53·2	64·2	+ 4·9	155	0	0	0·00	− 0·57	*	*	*	*	*
	a Arlington	82	14th	50	10th, 11th	76·0	55·1	64·8	+ 7·3	160	0	0	0·00	− 0·36	93·6	+45·3	84	+41	Newquay.
	a Cullompton .. M	88	14th	48	11th	81·4	52·8	66·1	+ 6·3	169	0	0	0·00	− 0·60	98·0	+54·7	88	+49	Cullompton.
	a Portland Bill ..	76	12, 13, 15th	54	10th, 11th	71·6	57·9	64·3	+ 4·8	156	0	0	0·00	—	97·1	—	86	—	Weymouth.
	p Plymouth	85	13th	54	11th	78·2	61·7	69·4	+ 8·9	192	0	0	0·00	− 0·61	98·9	+51·3	89	+46	Plymouth.
	p Falmouth	78	14th	56	11th	71·8	60·9	66·0	+ 6·4	168	0	0	0·00	− 0·62	96·5	+45·1	87	+41	Falmouth.
															97·3	—	87	—	Salcombe.
															97·7	+46·2	87	+41	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	79	12th	50	9th, 10th	65·7	53·1	59·0	+ 3·1	119	0	1	0·02	− 0·59	*	*	*	*	*
	a Blacksod Point ..	78	10th	51	13th	71·1	53·7	61·8	+ 4·9	139	0	0	0·00	− 0·66	*	*	*	*	*
	p Markree Castle ..	82	12th	42	12th	73·7	47·9	59·9	+ 3·5	125	0	1	0·02	− 0·72	87·9	+57·1	76	+49	Markree Castle.
	a Birr Castle	86	13th	45	11th, 12th	80·3	49·4	63·8	+ 5·9	153	0	0	0·00	− 0·63	89·3	+57·4	78	+50	Birr Castle.
b, East.	p Armagh	84	12th	45	11th	75·2	49·2	61·3	+ 4·2	135	0	0	0·00	− 0·66	98·2	+63·7	85	+55	Armagh.
	a Donaghadee	72	11th, 12th	53	9, 10, 11, 15	66·6	53·7	59·7	+ 2·7	124	0	0	0·00	− 0·62	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	78	13th	51	11th	72·4	55·6	63·4	+ 3·2	150	0	0	0·00	− 0·54	93·2	+52·8	81	+46	Phœnix Park.
	a Kilkenny	88	13th	46	11th	80·6	52·1	65·4	+ 6·4	164	0	1	0·02	− 0·58	*	*	*	*	*
	a Waterford	86	13th	50	12th	80·7	54·6	66·7	+ 7·4	173	0	0	0·00	− 0·73	*	*	*	*	*
b, West.	a Birr Castle	86	13th	45	11th, 12th	80·3	49·4	63·8	+ 5·9	153	0	0	0·00	− 0·63	89·8	+57·4	78	+50	Birr Castle.
	a Foynes	84	13th	48	12th	79·1	54·5	65·9	+ 7·4	167	0	0	0·00	− 0·64	*	*	*	*	*
	a Cahir .. .. M	88	13th	43	12th	80·9	50·6	64·7	+ 5·8	159	0	0	0·00	—	*	*	*	*	*
	a Killarney	88	13th	51	14th	82·0	53·0	66·5	+ 8·4	172	0	0	0·00	− 0·73	*	*	*	*	*
	a Valencia	83	13th	46	12th	76·3	53·9	64·3	+ 6·4	156	0	0	0·00	− 0·83	90·3	+53·9	80	+48	Valencia.
	a Roche's Point ..	75	14th, 15th	52	11th	71·4	57·0	63·7	+ 5·1	152	0	0	0·00	− 0·64	93·8	—	84	—	Ballinacurra.
11. ENGLISH CHANNEL...	a Scilly, St. Mary's ..	75	14th	54	11th	69·7	57·3	63·1	+ 2·9	148	0	0	0·00	− 0·51	90·5	+39·0	82	+35	Scilly.
	a Jersey, St. Aubins ..	80	14th	57	10th, 11th	75·7	58·9	66·7	+ 5·2	173	0	0	0·00	− 0·50	96·9	+40·8	88	+37	St. Heliers.
	a Guernsey	75	12, 13, 14th	55	10th, 11th	71·4	57·2	63·8	+ 3·1	153	0	0	0·00	− 0·49	96·6	+38·9	87	+35	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 96·5 hrs. (+43·8 hrs.), 86 % (+39 %); *Bournemouth*, 99·9 hrs., 89 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

ATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	56·2	—
— — ..				
— — ..				
1. Aberdeen	—	—	—	53·6
Crathes	1	29	60·9	54·9
Balmoral	0	35	—	—
West Linton.. ..	—	—	—	—
Marchmont ..	0	35	61·3	—
2. Cockle Park	0	38	63·7	56·1
Durham	0	32	—	—
York	—	—	62·1	56·4
Hull	0	42	63·3	54·6
Lincoln	—	—	62·8	56·1
Rauceby	0	40	68·4	58·2
3. Norwich	0	43	—	—
Yarmouth	—	—	69·1	61·0
Lowestoft	0	44	66·4	59·1
Cambridge	0	42	66·8	60·5
Clacton-on-Sea ..	0	41	63·2	58·6
Southend	0	47	69·0	—
Tottenham	0	43	—	61·1

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
4. Harrogate	0	33	59·3	56·4
Hudderafield ..	0	37	64·4	55·1
Buxton	0	34	62·9	53·4
Sheffield	0	36	61·8	54·6
Nottingham.. ..	0	44	66·5	58·7
Birmingham.. ..	0	34	60·5	52·9
Oxford	0	—	—	—
Hereford	0	33	—	—
Cirencester	0	38	64·0	57·4
Bath	—	—	67·1	—
5. Margate	—	—	—	—
Greenwich	0	39	—	—
Westminster ..	?	?	—	—
Kew	0	44	65·3	58·0
Canterbury	0	47	64·4	59·5
Tunbridge Wells ..	0	44	67·0	—
Wisley	0	36	66·7	60·2
Worthing	0	45	67·4	59·9
Portsmouth	—	—	—	—
6. Glasgow	0	39	—	—
Rothesay	—	—	—	54·9
Colmonell	0	43	—	—

STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
6. Dumfries	0	36	65·7	58·7
Douglas	0	47	—	—
7. Aspatria	0	36	62·4	54·2
Newton Rigg ..	0	34	63·1	55·4
Burnley	0	34	62·1	54·4
Southport	0	33	66·6	60·9
Manchester City ..	0	36	63·0	58·0
Bettws-y-Coed ..	0	42	63·0	55·6
8. Llangammarch Wells	2	23	62·9	54·0
Cardiff	0	43	66·8	58·6
Clifton	0	46	—	—
Plymouth	0	45	71·4	—
9. Armagh	0	40	63·7	56·6
Markree	0	36	62·5	55·5
10. Dublin, Trin. Coll. ..	0	39	64·7	57·8
11. Guernsey, Brooklyn	0	45	66·2	60·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	53	52	52·7
	Kirkwall	54	52	53·3
	Wick	55	52	53·2
SCOTLAND E.	Cromarty	61	57	59·3
	Pennan Bay	60	55	57·8
	Aberdeen, Cove Bay ..	55	54	54·3
ENGLAND, N.E.	Burnmouth, Berwick ..	56	53	54·6
	Scarborough	65	53	57·3
ENGLAND, E.	Shipwash Lightship ..	64	59	62·0
	Margate‡	67	63	64·7
ENGLAND, S.E.	Eastbourne‡	65	64	64·6

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	63	52	58·7
	Ballantrae	58	52	55·0
ENGLAND, N.W.	Port Erin	62	54	56·2
ENGLAND, S.W.	Newquay	64	61	62·0
	Scilly	59	57	57·7
	Plymouth‡	62	61	61·0
	Salcombe	60	58	58·9
IRELAND, N.W.	Sheephaven	60	57	58·9
	Teelin	65	57	61·2
IRELAND, S.W.	Cleggan	63	54	57·8
	Seafield	70	59	63·0
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

Registering Balloon Ascents. **Pilot Balloon Ascent.**

Height kms.	1 Pyrton Hill, 51° 38′/N. 1° 1′/W. June 7th, 1911, 4.46 p.m. Mgd.	1 °A	2 Pyrton Hill, 51° 38′/N. 1° 1′/W. June 8th, 1911, 7.0 a.m. Mgd.	2 °A	3 Limerick. Mungret College, 52° 38′ N. 8° 41′ W. June 8th, 1911, 7.0 a.m. Mgd.	3 °A	4 Pyrton Hill, 51° 38′ N. 1° 1′ W. June 9th, 1911. 6.50 a.m. Mgd.	4 °A	5 Limerick, Mungret College, 52° 38′ N. 8° 41′ W. June 9th, 1911, 7.10 a.m. Mgd.	5 °A	6 Pyrton Hill, 51° 38′ N. 1° 1′ W. July 14th, 1911, 3·6 p.m. Wind. Direction°.	6 Wind. Velocity m.p.s.	Height kms.
Ground	1·009	287 291	1·008	289	1·025	290·5	·995	288	1·017	286	350	4	Ground
0·5	·968	288 289	·965	289	·968	289	·955	290·5	·959	284·5	35	3·5	0·5
1·0	·912	286	·910	286	·914	287 289	·897	288	·904	283 287	15	4	1·0
1·5	·860	283·5 284·5	·856	283·5	·860	285 287	·844	284 283	·853	282 284	345	5	1·5
2·0	·808	282 284	·807	279	·811	282 284	·795	280 278	·804	280·5 281·5	330	5·5	2·0
2·5	·761	280 282	·758	280 278	·764	278 280	·748	275·5	·756	276 277	340	6	2·5
3·0	·718	277 279·5	·715	277 275	·719	275 276·5	·704	273 272	·712	273 274·5	325	4	3·0
3·5	·674	274 276	·672	274 272	·678	272 274	·661	270·5 269	·670	270 272	335	5·5	3·5
4·0	·647	272 273·5	·631	269 271	·636	269 271·5	·620	267·5 266	·628	266 267·5	355	5	4·0
4·5	·596	268 272	·594	264·5 266·5	·598	266 268·5	·581	264 262·5	·591	263	15	6·5	4·5
5·0	·558	263 266	·556	262 264	·561	263 265	·542	260 259	·552	260	25	7	5·0
5·5	·524	259 262	·523	258·5 259·5	·527	258 260	·510	256 255	·516	256·5 258	—	—	5·5
6·0	·489	255 258	·489	255 254	·492	253 256	·476	252·5	·484	254 256	—	—	6·0
6·5	·458	251 254	·457	251·5 250·5	·461	251 252	·444	249	·453	249·5 252	—	—	6·5
7·0	·430	247 250	·428	249 248	·431	247 250	·416	246 245	·422	246 248·5	—	—	7·0
7·5	·401	242 245	·398	245 243	·403	243·5 246	·385	242 240	·395	242 245	—	—	7·5
8·0	·374	239 241	·371	240 238	·376	240 242	·359	238 236	·368	237 240	—	—	8·0
8·5	·348	233·5 236	·345	236 234	·351	236·5 238	·336	234 231·5	·342	232 235	—	—	8·5
9·0	·323	229 231	·323	232 230	·325	233 235	·311	230 227·5	·318	228 231	—	—	9·0
9·5	·300	225 228	·300	227·5 225	·302	229·5 232	·289	226·5 223·5	·297	224 227	—	—	9·5
10·0	·278	220 223	·278	223 221	·283	225 228	·271	223 220	·276	220 224	—	—	10·0
11·0	·238	212 214	·238	217·5 214	·243	218 221	·232	217·5 215	·236	215 214	—	—	11·0
12·0	·203	211	·203	214 211	·209	214 216·5	·198	215 214	·203	213	—	—	12·0
13·0	·172	212	·172	214	·178		·171	221	·173	213	—	—	13·0
14·0	·148	214	·148	214·5 215·5	·154	212·5 215·5 216 218	·145	221 219	—	—	—	—	14·0
15·0	·125	213	·125	215 217	·131	216 221	·124	223 222	—	—	—	—	15·0
16·0	—	—	·108	216·5 217	·111	218 221	·107	223	—	—	—	—	16·0
17·0	—	—	—	—	·096	221	—		—	—	—	—	17·0
At Min. Pressure.	—	212°	—	217°	·096	221°	·107	223°	·173	213°			At Min. Pressure.
Max. height (km.)	15·3		16·5		17·0		16·0		13·0				Max. height (km.)
Min. Temp. ..	210° at 11·6, 12·4 km.		210° at 12·5 km.		212° at 12·5 km.		214° at 12·0 km.		213° at 12 km. and 13 km. 11·7 km. ; 213°				Min. Temp.
Hc, Tc	11·6 km. ; 12·4 km.	210°	12·5 km. ; 213°, 210°		12·5 km. ; 212°, 216°		11·0 km. ; 215°, 214°						Hc, T c.
Place of fall ..	Wallingford		Mungham		Nr. Kildysart		Nr. Banstead		Buttevant				Place of fall.
Distance (km.)	12		17		31		65		48				Distance (km.)
Direction ..	245°		288°		280°		121°		185°				Direction.
Gradient, °C per 100 m.	0·68		0·68		0·64		0·67		0·64				Gradient, °C per 100 m.
Ground to ..	10 km.		10 km.		10 km.		10 km.		10 km.				Ground to.

NOTES.

1—Weather clear, wind N.E. 1. 2—Weather very clear, wind E. 1. Very good trace. 3—Wind E.N.E., light. Faint cirrus. 4—Cloudless but hazy, wind N. 2. 5—Wind N.E. 3. Cumulus, no high clouds. A rather different type of instrument was used, and the record may be in part due to lag. 6—One theodolite, 2·8 m. per second assumed rate of ascent. Recent ascents in the hot weather have shown very variable rates of ascent, rendering this assumption of doubtful accuracy. No clouds.

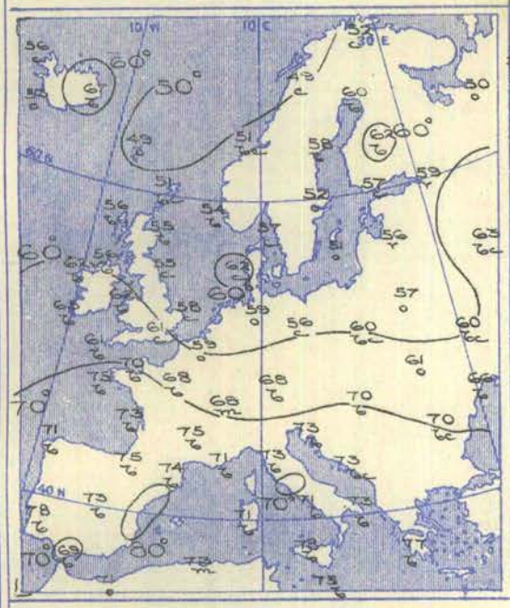
Particulars as to the wind relating to ascents Nos. 2 and 4 have been published in No. 26 of the Weekly Weather Report.

NOTE.—Hc and Tc are the height and temperature at which the stratosphere is reached.

Sunday, 9th July, 1911.

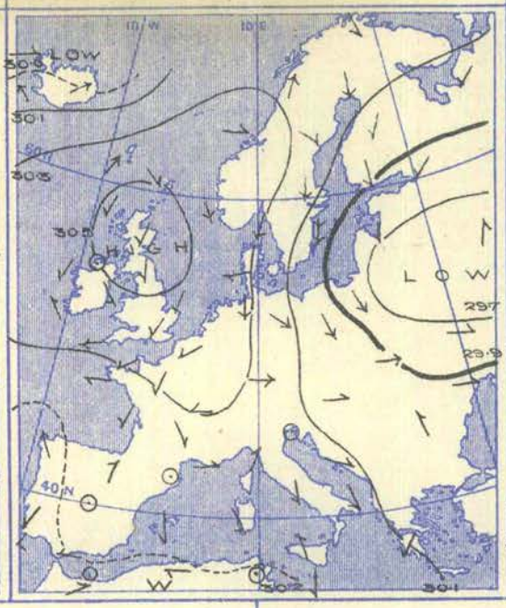
Temperature and Weather.

7 a.m.

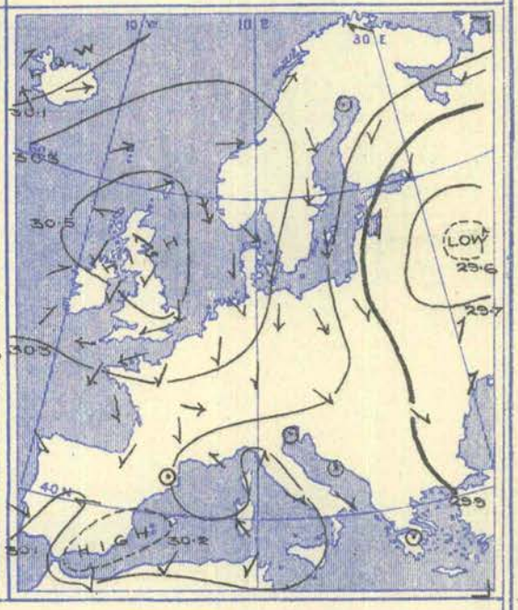


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or dull, with rain in places in the south of Sweden, the Baltic and Poland, fair to fine and bright in all other parts of our area, with some mist at our own western stations. Rain falling during day in eastern Germany and western Russia and also on the west coast of Norway, but remaining fine over western and southern Europe.

Temperature fallen over England and central and western Europe generally, risen over northern Sweden, Iceland and at our own western stations. Morning readings ranging from about 50° at some stations in the extreme north of Europe and about 55° over the north-western quarter generally to 70° and above over a very large area extending from western France to Greece. Rising later to about 75° in the western and southern parts of the United Kingdom generally, highest value 78° at Birr Castle and Aberystwyth; some readings of nearly 100° in western France, but inland maxima lower.

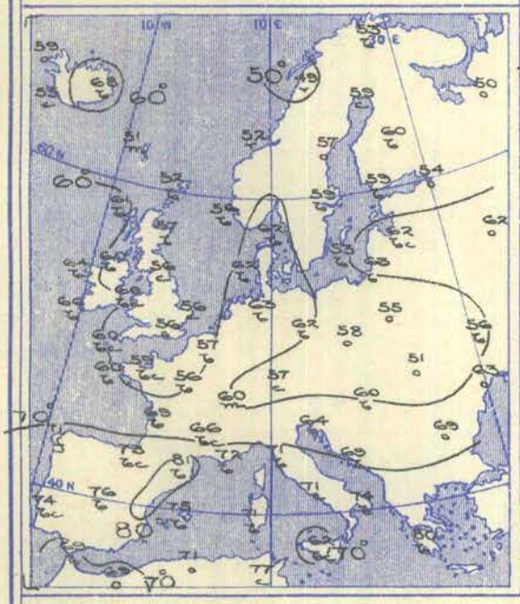
Wind in morning calm or variable over Scotland, but North-Easterly over England, Ireland and France, generally light or moderate in force. Northerly to Westerly over northern and central Europe as a whole, strong in many places and a gale in the south of Sweden; light, variable over southern Europe; Southerly or South-Westerly over the Arctic region. Very little change occurring during day.

Barometer in morning highest 30·5 in. and upwards over Scotland, and above 30¼ in. over north-western Europe generally. Lowest 30·0 in. and less to the north of Iceland and 29·7 in. and less in a depression over western Russia. Latter system moving Eastwards during day but scarcely any change in barometric pressure over western Europe.

Monday, 10th July, 1911.

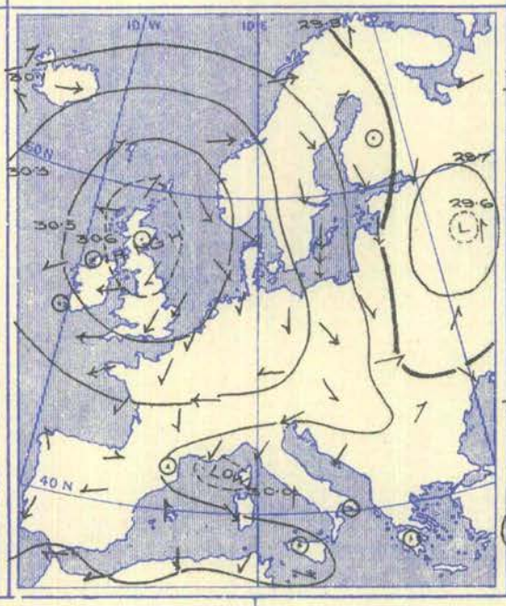
Temperature and Weather.

7 a.m.

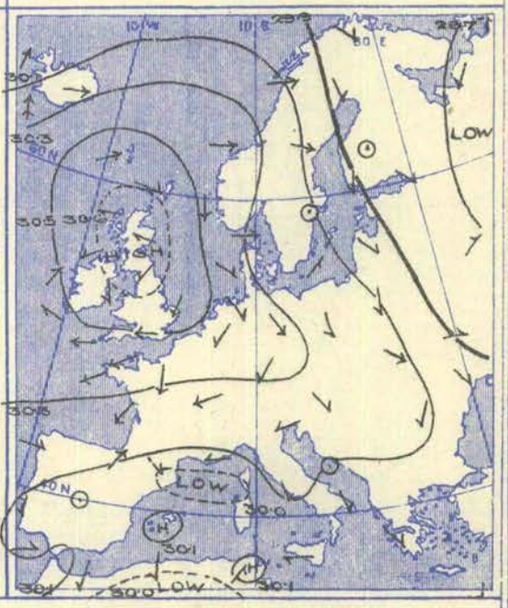


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over the British Islands and north-western Europe generally, but dull, with rain in places on the west coast of Norway and at some stations in eastern Europe. Rain falling during day on the Riviera and in northern Italy as well as in some parts of Russia and Austria, 0·7 in. at Florence, 1·2 in. at Archangel, and 1·4 in. at Pesaro.

Temperature fallen at most of our own stations as well as in France and central Europe, changed irregularly elsewhere. Morning readings below 60° over a large part of Great Britain and northern and central Europe, but above 70° over the Mediterranean countries generally and above 80° in a few places. Rising to nearly 80° in some parts of Ireland during day, but remaining below 70° in eastern England; maxima of between 90° and 100° in the west and south of France.

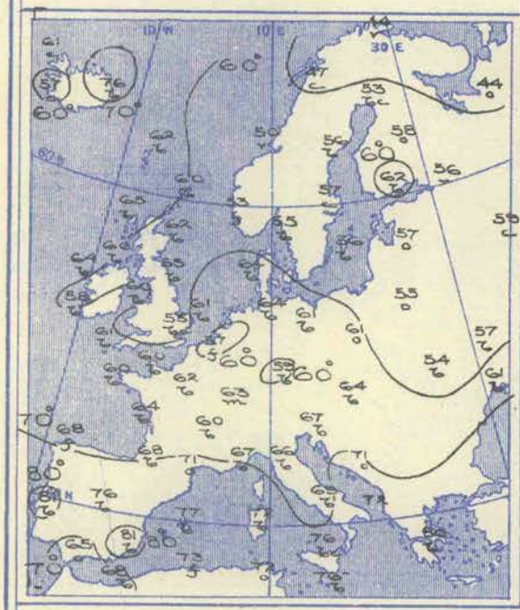
Wind in morning showing an anticyclonic circulation over north-western Europe generally. Blowing a fresh to strong breeze from north-east at several of the Channel stations and over the east of England. Cyclonic over the Baltic and Russia with a gale at Neufahrwasser. Variable over the Mediterranean countries. High wind from north-east springing up by 6 p.m. at Leghorn and wind decreasing on the Baltic.

Barometer in morning highest 30·4 in. to 30·6 in. and upwards in a large anticyclone covering the British Islands, the North Sea and the neighbouring parts of the Continent; lowest about 29·6 in. in a depression over central Russia, and 30·0 in. in a small system over the Mediterranean. No change in the position of the anticyclone during day, but depression over Russia moving north-eastwards.

Tuesday, 11th July, 1911.

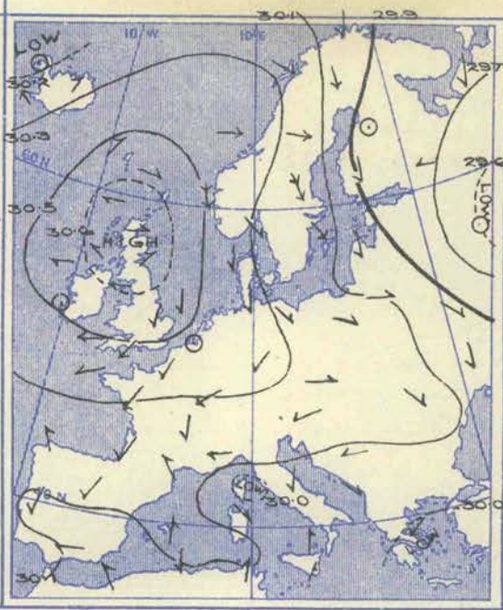
Temperature and Weather.

7 a.m.

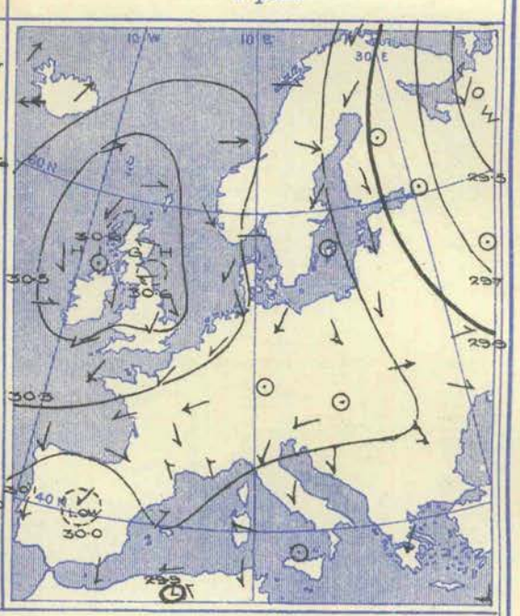


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or dull with rain in some parts of northern Europe, but fine over the British Islands and Europe generally, mist or fog reported at a few places. Small amounts of rain falling during day in Russia and in one or two other isolated districts, but continuing very fine over our area generally.

Temperature risen over Great Britain, fallen in Ireland and also in the west and south of France, changed irregularly elsewhere. Morning readings below 60° over a large part of the British Islands and northern and eastern Europe, but between 70° and 80° at most of the Mediterranean stations. Rising during day to 80° or above over the greater part of Ireland, England and Wales, the highest readings being 82° at Greenwich and 84° at Bettws-y-coed.

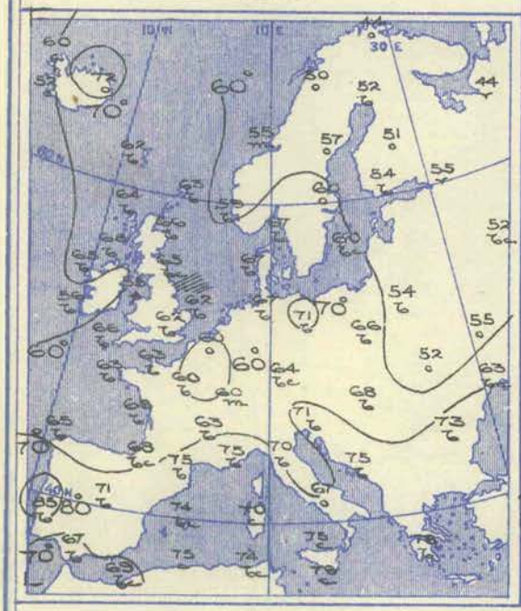
Wind in morning calm or light anticyclonic over our northern and western districts, Easterly or North-Easterly over the south of England, the Channel, France and the Peninsula, Northerly over the North Sea and all the northern parts of the Continent, North-Westerly or Westerly over the central and eastern countries, variable, but mostly North-Easterly over the Mediterranean; the North-Easterly breeze on the Channel fresh in force and the Northerly current strong to a gale in Scandinavia. Some decrease taking place generally during day, but little change in direction.

Barometer in morning highest 30·3 in. to 30·6 in. and upwards in a large anticyclone covering north-western Europe, with its centre over Scotland, lowest about 29·6 in. in a depression near Moscow, and 30·0 in. in several shallow systems in the extreme south of our area. Depression over Russia growing deeper during day, and a new low pressure system developing over Spain, but no modification taking place within the anticyclone.

Wednesday, 12th July, 1911.

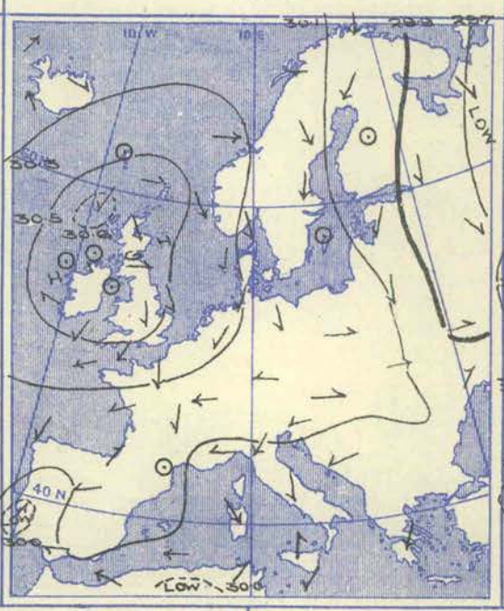
Temperature and Weather.

7 a.m.

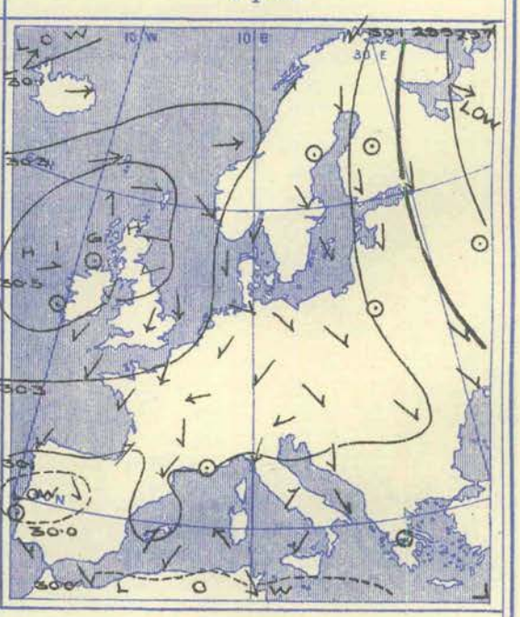


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very fine over the British Islands and Europe as a whole, but cloudy at one or two stations in Scandinavia and Russia and rainy at Archangel and St. Petersburg. Small to considerable amounts of rain during day at several of the Russian and Italian stations, weather remaining very fine and dry over western Europe generally.

Temperature risen over Great Britain, Scandinavia and the central and southern Continental countries generally, fallen in Russia, changed irregularly elsewhere. Morning readings above 60° over our Islands and the western countries of the Continent, above 70° over the Mediterranean generally, and as high as 85° at Lisbon. Rising to 80° or above in most parts of the United Kingdom during day, but scarcely touching 70° on the Norfolk coast; exceeding 90° in some parts of France and Algeria.

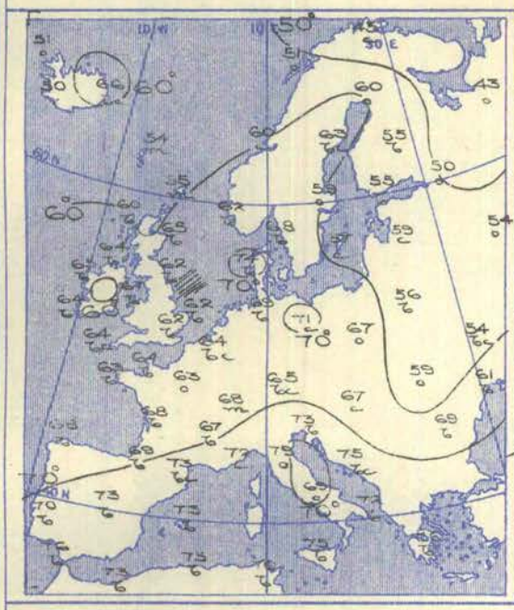
Wind in morning very light and variable over our Islands generally, but Northerly to Easterly over the North Sea, the Channel and south-western Europe, light in force as a rule but strong at Spurn Head; Northerly or North-Westerly over northern, central and eastern Europe, blowing with the force of a high wind at Archangel and Christiansund; moderate, but variable breezes on the Mediterranean region. No material alteration during day.

Barometer in morning highest 30¼ in. to above 30½ in. in a large anticyclone extending from Iceland to central Europe, with its centre over the Hebrides, lowest 29·7 in. and less in a depression over Russia and 30·0 in. and less in two shallow systems over the Mediterranean. No change of importance taking place later.

Thursday, 13th July, 1911.

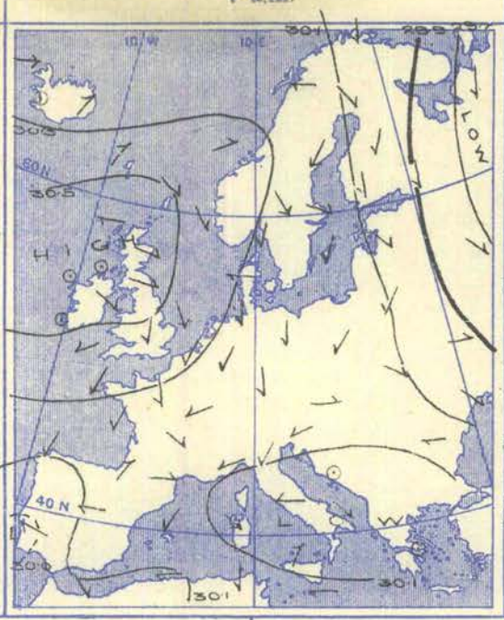
Temperature and Weather.

7 a.m.

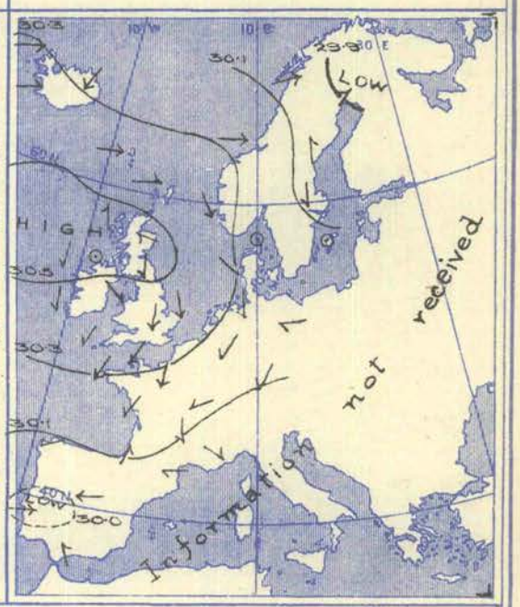


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very fine and bright over our Islands and western Europe generally, overcast over northern Russia and at some of the Italian stations, with rain locally at Rome, rainy also at Reykjavik, Iceland. Rain falling during day at several of the Scandinavian stations, as much as ¾ inch at Bodö, some rain also in central Germany; remaining fine all over the British Islands and France.

Temperature fallen in Iceland and the north of Scotland, risen in Ireland, scarcely changed over England, and changed irregularly on the Continent. Morning readings above 60° over the British Islands and all except the eastern part of the Continent, above 70° in the extreme south. Maxima during day again above 80° in many parts of Ireland and England, numerous places recording 85° and Birr Castle 86°; a reading of 95° reported at Rochefort.

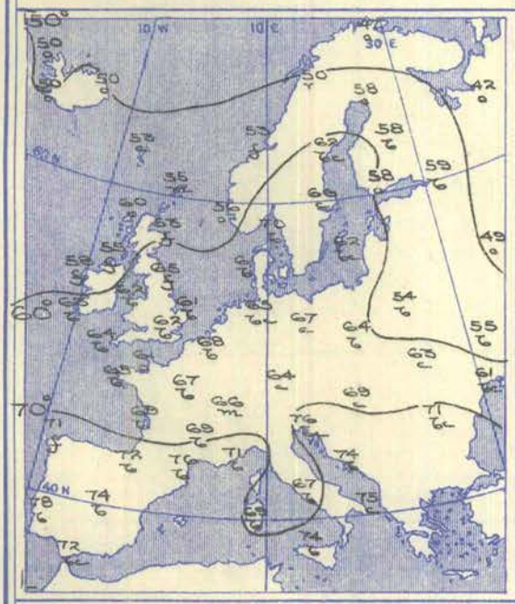
Wind in morning calm or light, variable in Scotland and Ireland, but Northerly to North-Easterly, moderate to fresh over England, the North Sea and Channel; light and somewhat variable over the Continent as a whole. Increasing in force during day over the Channel and the east coast of England, and fresh Westerly breeze setting in over the northern part of our area.

Barometer in morning highest 30·5 in. and upwards over our northern and western coasts and on the Atlantic. Lowest 29·7 in. and less over northern Russia, and 30·1 in. and less in two shallow depressions over the Mediterranean region. No change in the position of the anticyclone during day, but a fall of the barometer taking place over northern Europe and spreading down the North Sea.

Friday, 14th July, 1911.

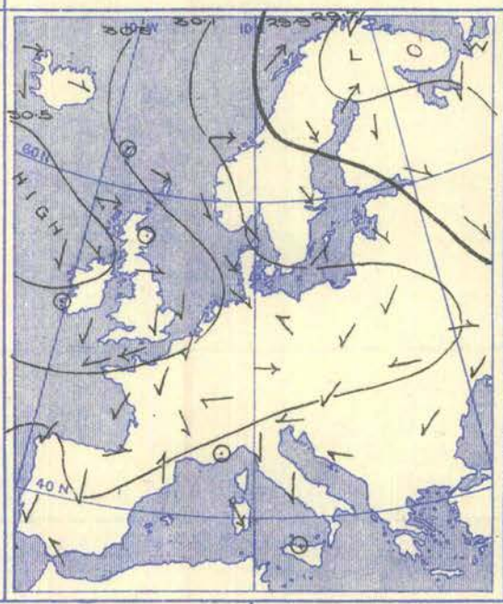
Temperature and Weather.

7 a.m.

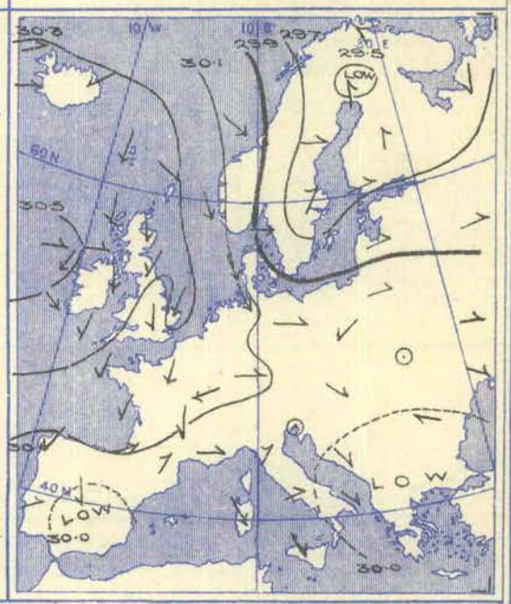


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine over our area as a whole, but overcast along the west coast of Norway, with rain at Bodö, and foggy on the north-west coast of Ireland, as well as at Corunna. A little rain experienced later in several parts of Scotland and in some scattered localities on the Continent, and as much as 1·0 in. at Naples. Conditions remaining very fine generally.

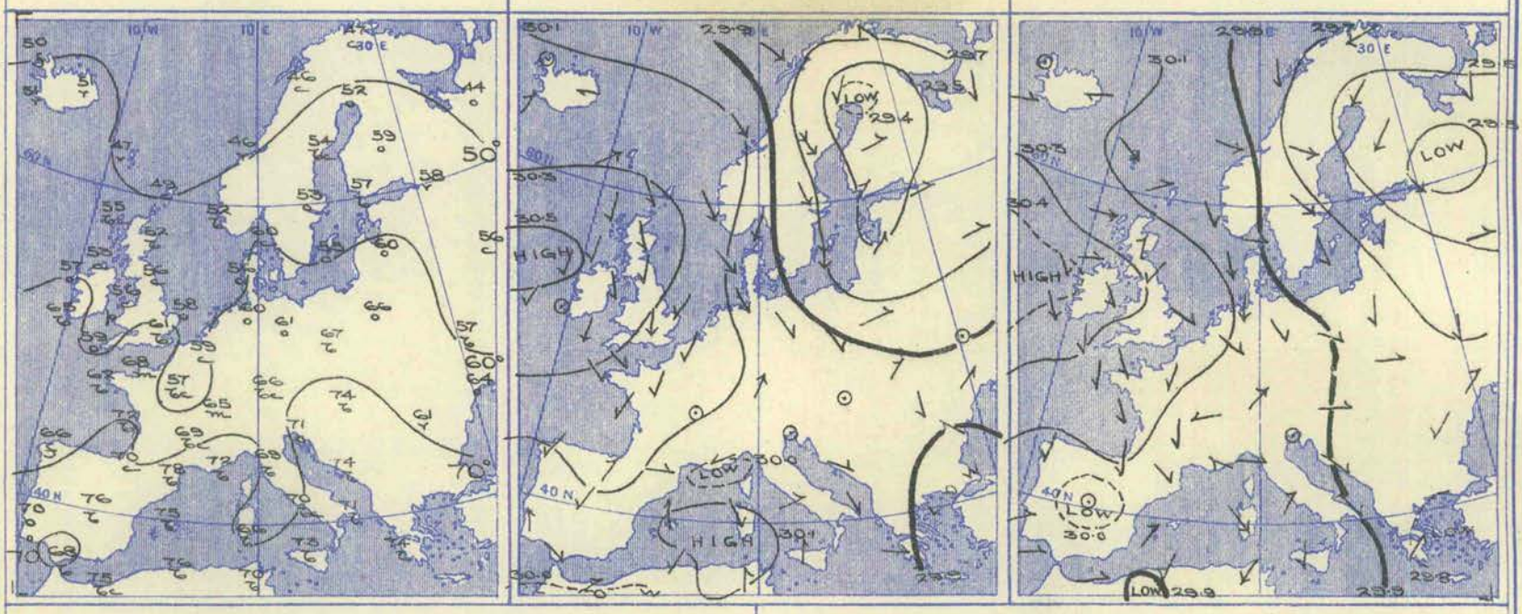
Temperature changed little. Morning readings ranging from above 75° in some southern regions and 70° in the south of Norway to 53° at Aberdeen, and to below 45° in the extreme north-east of Europe. Maxima during day 85° or slightly above in various parts of the United Kingdom and France, 90° at Corunna, 91° at Lisbon, and 100° at Rochefort. Thermometer touching 81° at Copenhagen. Minima at night as high as 60° in some parts of England.

Wind in morning anticyclonic very generally, except in the far north of our area. Westerly current high at Christiansund, but the North-Westerly wind light or moderate over north-western and western Europe as a whole. Light variable airs prevailing in Italy and Spain. Northerly current increasing in strength later and blowing throughout Norway, over the North Sea, and in most parts of these Islands. Little change in the south of our area.

Barometer in morning ranging from above 30·5 in. in a very large anticyclone centred off the west of Ireland to below 29·7 in. in a depression in the extreme north of Scandinavia. Gradient moderate to very slight. Pressure decreasing briskly during day over Scandinavia, and gradient becoming rather steep over that region and increasing in intensity over the North Sea also. Barometer beginning to fall slowly in most parts of the United Kingdom.

Saturday, 15th July, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.



Weather in morning cloudy or overcast in nearly all parts of the United Kingdom and also over a large area in northern Europe, with showers at Nottingham and Pembroke and rain at Christiansund and St. Petersburg. Fair to very fine in almost all other regions, but rain falling at Hermanstadt. Some rain later in the north of Scotland and also in several districts in northern and eastern Europe; as much as 1·1 in. at Copenhagen and 0·8 in. at Hermanstadt.

Temperature fallen over the major portion of our area. Readings in morning 78° at Perpignan and above 70° at many southern stations. Very little above 50° at some Scottish stations and below that figure in the extreme north of Norway and Russia. Maxima during day much lower than of late in this country; below 70° over a large area, but generally between 85° and 90° in France, and above 90° in places in the south and west, as well as over the Mediterranean region; thermometer touching 99° at Sfax and exceeding 100° in central Algeria.

Wind in morning Northerly very generally; fresh at some of our own stations, and strong to a gale over Scandinavia. Light variable airs general over the south of Europe. No change of importance in direction during day, but force decreasing somewhat in Scandinavia and increasing on some shores of the Mediterranean.

Barometer in morning above 30·5 in. in a large high pressure system centred off the west of Ireland; below 29·4 in. in a large depression having its minimum in the north of Finland. Gradient steep or rather so over Scandinavia and its neighbourhood. Finnish depression moving Eastward later and apparently growing deeper. Pressure decreasing slowly over these Islands, and anticyclonic system receding in a Westerly direction. Shallow depressions developing over Spain and Algeria.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). (See also p. 228.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height. Metres.	Remarks.
1	1911. July 9th, 10.10 a.m. to 11.35 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	293·2° 63% 50°, 7	291·3° 63% 40°, 9	287° 63% 50°, 9						Half overcast Cl.-S. to clear sky. Steady wind near ground, unreliable at 500 m.
2	July 13th, 5.30 p.m. to 7.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	298° 42% 20°, 7	297° 52% 15°, ?	? ° ? % ?°,	? ° ? % ?°,	288·5° 62% 60°, 18				Clear sky. Imperfect record, clock stopped. Previous attempts at 11.30 a.m. and 2.0 p.m. showed no wind above 300 m.
3	July 15th, noon to 1.0 p.m.	Brighton, 115 m.	Temperature .. Humidity .. Wind	293·5° 70% 20°, 8·9	292·5° 70% 20°, 17	289·5° 70% 20°, 13						Overcast haze. Gusty wind at all altitudes. Ground wind veered to 40° and greatly increased in force during ascent.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	1	1
Area of Surface (sq. ft.)	7	7	7
Capacity of Balloon (cub. ft.) ..	—	—	—
Length of Wire (feet)	1,000	1,800	1,000

South Kensington, London, S.W. *July 18th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 29. TWENTY-NINTH WEEK, SUNDAY, JULY 16TH, TO SATURDAY, JULY 22ND, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather was again very fine over the greater part of England, but slight rain was experienced at times in the north-western and north-eastern counties and in north Wales, as well as in Ireland. In the north and west of Scotland rain was frequent although seldom heavy. A thunderstorm occurred at Gordon Castle and Crathes on the 18th and thunder at Stonyhurst on the 19th and 20th.

Temperature was above the average over the Kingdom generally, the excess being large in most of the English districts. In the east and north of Scotland, however, it was slightly below the normal, while in Scotland West it was in precise agreement with the average. The highest of the maxima occurred either on the 21st or 22nd. In England S.E. (at Margate) the thermometer touched 94°, in the Midland Counties (at Raunds) 93°, and in England E. (at Hillington, Geldeston and Tottenham) 92°; at Greenwich observatory the high figure of 96° was registered on the 22nd. In Ireland and Scotland the maxima were below 80°, and in Scotland N. and W. they were not above 71°. The lowest of the minima were mostly recorded early in the week except in Scotland. In Scotland E. (at Balmoral on the 20th) the reading was as low as 32°, and elsewhere the minima ranged from 39° in Scotland N. and W. to 48° in England N.E. and to 55° in the English Channel. Late in the period the minima were above 60° at several southern and south-eastern stations, and also in some localities in Wales and the north-west of England. The lowest grass readings were 30° at Crathes, Balmoral and Llangammarch Wells, and 36° at Cambridge.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year at almost all stations. The figures ranged from 66° at Margate, and 63° at the Shipwash Lightship, Plymouth and Newquay to about 53° at Wick and Lerwick.

Rainfall was much below the the average generally. At most stations in the southern half of England the drought which had commenced at the beginning of the month remained unbroken, In Scotland N. the fall was considerably in excess of the average, and in Scotland E. slightly so.

Bright Sunshine varied greatly. In most parts of England it was again much above the average, while in Ireland, Scotland and the north-west and north-east of England it was below it. The percentage of the possible duration ranged from 70 in England S.E. and the English Channel district 56, in England S.W. and 54 in England E. to 25 in England N.W. 22 in Scotland N. and 18 in Ireland N.

Barometer and Wind. At the beginning of the week an anticyclone was situated on the Atlantic to the westward of Ireland and a large depression over Northern Europe, while a North-Westerly to Westerly current of wind prevailed over these Islands. The high pressure system afterwards moved south-eastwards and eastwards to France, and a shallow depression appearing off the north of Scotland, the wind backed to the Westward or South-Westward over the United Kingdom. Towards the end of the period, when the anticyclone lay over Central Europe, cyclonic disturbances appeared to the westward and north-westward of these Islands, while the wind backed still further, until a Southerly current became general.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 220.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Very unusual	Very unusual	Very unusual	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Moderate	Light	Very light	Very light	Nought	Moderate	Light	Very light	Light	Moderate	Nought
	Sunshine ...	Moderate	Moderate	Abundant	Abundant	Abundant	Very abundant	Scanty	Scanty	Abundant	Scanty	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 7 weeks from June 4th, 1911.	Warmth ...	**2** * 2	**2** * 2	**4** * 2	**4** * 2	**4** * 2	**4** * 2	**2** * 2	**3** * 2	**4** * 2	**3** * 2	**3** * 1	**4** * 1
	Rainfall ...	**3** * 3	**1** * 3	**1** * 4	**2** * 4	**1** * 4	**1** * 4	**1** * 2	**1** * 4	**1** * 4	**1** * 4	**2** * 4	**2** * 3
	Sunshine ...	**3** * 1	**3** * 2	**4** * 2	**4** * 2	**4** * 2	**4** * 2	**2** * 3	**4** * 3	**5** * 2	**3** * 3	**3** * 2	**5** * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	**4** * 1	**5** * 2	**7** * 1	**6** * 1	**6** * 1	**4** * 1	**5** * 3	**5** * 2	**4** * 2	**3** * 1	**6** * 3	**3** * 2
	Rainfall ...	**4** * 6	**3** * 5	**2** * 8	**2** * 3	**2** * 6	**3** * 4	**3** * 8	**3** * 7	**5** * 7	**3** * 7	**4** * 6	**3** * 6
	Sunshine ...	**6** * 3	**4** * 5	**1** * 5	**2** * 3	**1** * 5	**4** * 4	**5** * 3	**4** * 2	**4** * 3	**5** * 4	**4** * 3	**4** * 5

9841/450 Wy. & S., Ltd. 7—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	TWENTY-NINTH WEEK—July 16th to July 22nd, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	71	39	60·7	49·5	54·7	− 0·3	89	− 2	0	0	6	+ 1	1·22	+0·44	26	− 2	22	− 2
Eastern																		
1. SCOTLAND, EAST	78	32	64·6	49·5	56·5	− 0·4	102	− 2	0	0	4	0	0·80	+0·07	34	− 2	29	− 1
2. ENGLAND, N.E.	89	48	71·4	55·2	62·7	+ 4·0	145	+ 28	0	0	3	0	0·21	−0·33	41	− 3	36	− 2
3. ENGLAND, EAST	92	42	78·3	55·6	66·2	+ 5·5	169	+ 38	0	0	1	− 2	0·01	−0·58	61	+ 14	54	+13
4. MIDLAND COUNTIES	93	43	75·5	55·6	64·9	+ 4·8	160	+ 33	0	0	1	− 2	0·05	−0·53	52	+ 11	46	+10
5. ENGLAND, S.E.	94	42	77·3	55·0	65·4	+ 3·8	164	+ 27	0	0	0	− 3	0·00	−0·55	78	+ 30	70	+27
Western																		
6. SCOTLAND, WEST	71	39	63·0	52·5	57·4	0·0	108	0	0	0	6	+ 2	0·73	−0·09	31	− 7	27	− 6
7. ENGLAND, N.W.	82	47	67·6	56·4	61·7	+ 2·7	138	+ 19	0	0	4	0	0·25	−0·47	28	− 12	25	−10
8. ENGLAND, S.W.	87	42	72·7	56·1	63·8	+ 3·8	153	+ 27	0	0	1	− 3	0·02	−0·73	62	+ 19	56	+17
9 IRELAND, NORTH	74	45	65·5	53·3	58·9	+ 1·5	118	+ 10	0	0	4	− 1	0·50	−0·30	20	− 10	18	− 9
10. IRELAND, SOUTH	79	47	69·6	55·8	62·2	+ 3·1	141	+ 21	0	0	3	− 2	0·61	−0·11	33	− 1	30	− 1
11. ENGLISH CHANNEL	86	55	72·4	58·1	64·8	+ 3·3	160	+ 23	0	0	0	− 4	0·00	−0·57	76	+ 24	70	+22
	THE SEASON (Summer).—Aggregates, &c., for the Period of 7 Weeks, June 4th to July 22nd, 1911.																	
0. SCOTLAND, NORTH	84	35	*	*	*	*	570	− 4	0	− 2	27	− 1	5·11	+0·15	283	+50	33	+ 6
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	664	+ 15	5	+ 4	23	− 1	3·92	−0·19	343	+ 62	41	+ 7
2. ENGLAND, N.E.	89	32	*	*	*	*	791	+ 66	0	0	18	− 3	4·29	+1·10	366	+ 55	45	+ 7
3. ENGLAND, EAST	92	34	*	*	*	*	884	+ 67	0	0	15	− 5	2·55	−0·84	405	+ 65	51	+ 8
4. MIDLAND COUNTIES	93	32	*	*	*	*	867	+ 63	0	0	15	− 5	2·21	−1·24	374	+ 68	47	+ 9
5. ENGLAND, S.E.	94	32	*	*	*	*	906	+ 49	0	0	12	− 7	1·95	−1·21	455	+107	57	+13
Western																		
6. SCOTLAND, WEST	86	31	*	*	*	*	700	+ 4	0	0	25	0	3·83	−1·29	360	+ 63	43	+ 8
7. ENGLAND, N.W.	86	34	*	*	*	*	791	+ 33	0	0	22	− 1	3·35	−0·66	376	+ 65	46	+ 8
8. ENGLAND, S.W.	90	30	*	*	*	*	880	+ 81	0	0	15	− 8	2·53	−1·48	443	+112	56	+14
9. IRELAND, NORTH	86	31	*	*	*	*	700	0	0	0	21	− 8	2·89	−1·73	319	+ 66	39	+ 8
10. IRELAND, SOUTH	88	36	*	*	*	*	840	+ 66	0	0	18	− 7	2·70	−1·65	357	+ 76	45	+10
11. ENGLISH CHANNEL	86	46	*	*	*	*	913	+ 62	0	0	13	−10	2·86	−0·34	488	+ 91	63	+12
	THE YEAR.—Aggregates, &c., for the Period of 29 Weeks, January 1st to July 22nd, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	1115	+ 93	415	−142	118	−14	26·24	+0·44	823	+ 95	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1253	+ 73	492	−128	105	− 3	13·45	−1·92	941	+ 92	36	+ 4
2. ENGLAND, N.E.	89	19	*	*	*	*	1476	+199	371	−104	87	−11	10·56	−1·11	941	+ 28	36	+ 1
3. ENGLAND, EAST	92	16	*	*	*	*	1659	+151	409	−112	89	− 6	10·37	−1·34	1058	+ 83	40	+ 3
4. MIDLAND COUNTIES	93	14	*	*	*	*	1658	+135	415	−118	75	−19	8·39	−4·77	920	+ 48	35	+ 2
5. ENGLAND, S.E.	94	16	*	*	*	*	1693	+ 69	361	− 20	76	−14	9·98	−2·79	1123	+144	43	+ 6
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1435	+147	347	− 78	102	−12	20·16	−2·78	967	+ 97	37	+ 4
7. ENGLAND, N.W.	86	17	*	*	*	*	1536	+154	314	− 72	89	−15	13·74	−2·56	1002	+120	38	+ 5
8. ENGLAND, S.W.	90	13	*	*	*	*	1657	+ 93	297	− 4	84	−19	13·99	−4·10	1109	+141	43	+ 5
9. IRELAND, NORTH	86	18	*	*	*	*	1430	+ 70	302	− 43	96	−28	13·39	−5·19	947	+134	36	+ 5
10. IRELAND, SOUTH	88	18	*	*	*	*	1736	+143	295	+ 36	102	− 9	14·59	−5·28	1000	+ 98	38	+ 4
11. ENGLISH CHANNEL	86	28	*	*	*	*	1843	+ 73	135	+ 26	89	−21	11·70	−3·42	1236	+ 75	47	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*59*	*22nd*	*44*	*19th*	*56·0*	*47·4*	*51·4*	—	*66*	*0*	*4*	*0·11*	—	*38·9*	—	*31*	—	*Baltasound.*
	a Lerwick	60	21st, 22nd	43	17th	56·0	47·4	51·4	− 1·0	66	0	4	0·21	—	27·6	− 3·7	23	− 3	Deerness.
	a Stornoway	63	21st	47	19th	60·1	51·3	55·4	+ 1·1	94	0	7	1·69	+ 1·00	26·7	− 5·8	22	− 5	Stornoway.
	a *Castlebay, Barra Isd.*	*60*	*20th*	*50*	*19th, 20th*	*58·3*	*52·4*	*55·1*	− *1·4*	*92*	*0*	*6*	*0·97*	—	*32·2*	—	*27*	—	*Castlebay.*
b, Mainland.	a Wick	70	21st	45	17th	58·7	48·9	53·5	− 0·9	81	0	5	1·03	+ 0·42	*	*	*	*	*
	p Strathpeffer.. ..	71	21st	40	20th	63·7	48·6	55·6	− 0·5	95	0	7	0·81	+ 0·18	26·9	− 2·3	23	− 2	Strathpeffer.
	p Glencarron .. S	70	21st	47	17th, 19th	60·8	49·2	54·6	+ 0·7	88	0	7	2·17	+ 0·92	*	*	*	*	*
	p Fort Augustus S	66	16, 20, 21st	39	20th	63·2	49·9	56·1	+ 0·2	99	0	6	0·59	− 0·08	24·5	+ 2·0	21	+ 2	Fort Augustus.
	p Fort William S	66	20th	47	20th	62·1	51·1	56·2	0·0	99	0	7	2·03	+ 0·88	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	77	21st	44	20th	64·4	47·6	55·4	− 1·3	94	0	5	1·76	+ 0·98	*32·5*	—	*27*	—	*Gordon Castle.*
	a Nairn	78	21st	44	20th	64·0	48·9	55·9	− 0·7	97	0	6	1·01	+ 0·44	33·3	—	28	—	Nairn.
	a Aberdeen	73	21st	44	20th	64·1	50·0	56·6	+ 0·2	102	0	5	0·77	+ 0·14	36·0	− 0·6	30	− 1	Aberdeen.
	a Balmoral .. S	72	22nd	32	20th	65·4	44·7	54·3	0·0	86	0	3	0·50	− 0·15	30·7	—	26	—	Crathes S.
	p Crieff .. .. S	70	16th	43	20th	64·7	50·7	57·2	− 0·7	106	0	5	0·92	+ 0·24	31·7	—	27	—	Balruddery.
	p Leith	72	21st	50	19th	66·7	53·9	59·9	+ 1·5	125	0	2	0·45	− 0·15	*	*	*	*	*
	p West Linton.. S	66	21st	45	18th	62·2	49·5	55·4	0·0	94	0	5	0·61	—	—	—	—	—	*West Linton.*
	p Marchmont .. S	69	16th	47	19th	65·3	50·7	57·5	+ 1·0	109	0	4	0·35	− 0·40	40·5	+ 2·3	35	+ 2	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	76	21st	49	19th	69·8	53·4	61·0	+ 3·7	133	0	3	0·19	− 0·45	38·1	—	33	—	Cockle Park.
	a Shields	78	21st	50	17th	68·4	53·4	60·4	+ 2·7	129	0	3	0·24	− 0·32	*32·2*	− *0·5*	*28*	− *1*	*Newcastle.*
	p Durham	77	21st	52	16, 18, 19th	68·6	54·3	61·0	+ 2·2	133	0	2	0·35	− 0·31	38·7	+ 1·0	34	+ 1	Durham.
	p Rounton .. M	81	21st	50	19th	70·3	54·4	61·8	+ 4·2	139	0	5	0·30	− 0·32	*	*	*	*	*
	p Scarborough.. M	84	21st	51	16th	71·0	55·6	62·8	+ 4·1	146	0	4	0·25	− 0·30	38·1	—	33	—	Scarborough.
	p York	86	21st	51	16th	71·9	56·1	63·5	+ 3·4	151	0	4	0·30	− 0·27	28·3	− 11·7	25	− 10	York.
b, South.	a Spurn Head	86	21st	53	16th	71·7	57·9	64·3	+ 4·6	156	0	2	0·15	− 0·23	*	*	*	*	*
	a Lincoln	89	21st	48	16th	75·5	55·2	64·6	+ 3·5	158	0	2	0·09	− 0·41	51·7	—	46	—	Skegness.
	a Fulbeck	89	21st	50	16th	75·5	56·4	65·3	+ 4·5	163	0	2	0·04	− 0·48	50·8	—	45	—	Rauceby.
															53·9	—	*48*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	91	21st	48	16th	77·4	57·6	66·8	+ 6·8	174	0	4	0·04	—	46·9	—	42	—	Cromer.
	p Hillington .. M	92	21st	42	16th	78·9	53·9	65·0	+ 4·4	161	0	1	0·01	− 0·59	51·7	+ 6·4	46	+ 6	Hillington.
	a Yarmouth	86	21st	47	16th	75·6	56·6	65·4	+ 5·2	164	0	0	0·00	− 0·54	44·5	—	40	—	Yarmouth.
	a Norwich	91	21st	44	16th	78·3	56·3	66·5	+ 6·2	172	0	0	0·00	—	*	*	*	*	*
	p Geldeston	92	21st, 22nd	43	16th, 17th	79·6	54·0	65·9	+ 5·4	167	0	0	0·00	− 0·50	53·6	+ 5·3	48	+ 5	Geldeston.
	p Cambridge	91	21st	43	16th	79·9	54·1	66·1	+ 4·2	169	0	0	0·00	− 0·52	64·1	+16·9	57	+15	Cambridge.
b, South.	a *Felixstowe*	*78*	*21st*	*46*	*16th*	*74·3*	*56·9*	*65·0*	+ *3·3*	*161*	*0*	*0*	*0·00*	—	*70·6*	—	*63*	—	*Felixstowe.*
	a Clacton-on-Sea ..	81	21st	45	16th	75·9	56·9	65·7	+ 4·0	166	0	0	0·00	—	71·5	—	64	—	Clacton.
	a Rothamsted ..	88	21st	44	16th	78·3	54·1	65·4	+ 5·0	164	0	0	0·00	− 0·55	77·3	+28·6	70	+26	Rothamsted.
	a *Shoeburyness* ..	*90*	*21st*	*47*	*16th*	*79·7*	*58·0*	*68·1*	+ *4·9*	*183*	*0*	*0*	*0·00*	− *0·40*	*75·6*	—	*67*	—	*Southend.*
	p Tottenham	92	22nd	49	16th	81·0	57·8	68·6	+ 6·6	186	0	0	0·00	—	76·1	—	67	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	82	21st	50	19th	68·6	55·3	61·5	+ 4·0	137	0	3	0·20	− 0·34	35·7	—	31	—	Harrogate.
	a Bawtry	89	21st	50	16th, 17th	74·0	56·4	64·6	+ 4·4	158	0	3	0·13	− 0·39	36·1	− 1·4	32	− 1	Worksop.
	p *Buxton* .. M														—	—	—	—	*Buxton.*
	a Nottingham ..	88	21st	49	16th	75·6	55·7	65·0	+ 4·3	161	0	2	0·05	− 0·46	47·4	—	42	—	Nottingham.
	p Birmingham, Edgbsn	87	21st	52	16th, 19th	74·9	56·4	65·0	+ 4·8	161	0	1	0·05	− 0·45	39·2	—	35	—	Birmingham.
	a Raunds .. M	93	21st	43	16th	81·2	54·7	67·0	+ 5·8	175	0	0	0·00	—	*	*	*	*	*
	a Oxford	90	21st	49	16th	79·0	56·9	67·2	+ 5·6	176	0	0	0·00	− 0·54	65·9	+20·2	59	+18	Oxford.
b, West.	a Cheadle .. M	85	21st	49	19th	70·7	55·1	62·4	+ 4·1	143	0	2	0·08	− 0·55	45·0	—	40	—	Sheffield.
	p Shrewsbury	85	21st	47	16th	74·2	56·0	64·5	+ 5·0	158	0	1	0·01	—	*	*	*	*	*
	a Hereford .. M	81	21st	45	16th	75·5	55·3	64·7	+ 4·4	159	0	0	0·00	− 0·50	*	*	*	*	*
	a Cirencester	89	21st	46	16th	78·8	53·7	65·4	+ 5·8	164	0	0	0·00	− 0·58	67·3	+22·3	61	+20	Cirencester.
	a Bath	86	21st	51	16th	77·9	56·4	66·4	+ 5·4	171	0	0	0·00	− 0·58	76·5	—	69	—	Bath.
															73·0	—	*66*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	89	22nd	50	16th	79·5	56·4	67·2	+ 5·0	176	0	0	0·00	− 0·52	75·9	+29·0	68	+26	Kew.
	a Marlborough ..	87	21st	44	16th	79·2	51·3	64·3	+ 4·6	156	0	0	0·00	− 0·55	76·5	+33·6	69	+30	Marlborough.
	a Margate	94	22nd	48	16th	80·2	57·9	68·3	+ 6·4	184	0	0	0·00	− 0·44	71·8	+25·0	65	+23	Margate.
	a Wisley, Surrey ..	91	22nd	45	16th	81·1	53·7	66·4	+ 3·7	171	0	0	0·00	—	76·8	—	69	—	Wisley.
	a Swarraton .. M	86	22nd	42	16th	78·0	51·7	63·9	+ 3·9	153	0	0	0·00	− 0·53	79·1	—	72	—	Worthing.
	a Tunbridge Wells M	92	22nd	45	16th	79·7	53·0	65·4	+ 4·5	164	0	0	0·00	− 0·50	85·5	+37·9	77	+34	Tunbridge Wells.
	a Dungeness	75	22nd	45	16th	69·4	56·0	62·2	+ 1·1	141	0	0	0·00	− 0·39	71·9	—	65	—	Littlestone.
	p Hastings	83	22nd	50	16th	73·1	56·5	64·2	+ 3·1	155	0	0	0·00	− 0·49	*80·8*	+*26·5*	*74*	+*24*	*Hastings.*
	p Southampton ..	89	22nd	52	16th	77·5	56·9	66·5	+ 3·5	172	0	0	0·00	− 0·53	77·9	+27·4	70	+25	Southampton.
	a Ventnor	82	22nd	52	16th, 17th	75·5	56·9	65·6	+ 3·7	165	0	0	0·00	− 0·48	81·7	+32·0	74	+29	Ventnor.
															85·3	+31·3	78	+29	Eastbourne.
LONDON	a *Westminster* ..	*90*	*22nd*	*53*	*16th*	*80·4*	*57·6*	*68·2*	+ *6·0*	*183*	*0*	*0*	*0·00*	− *0·50*	*73·0*	+*32·0*	*65*	+*28*	*Westminster.*
	a *Greenwich*	*96*	*22nd*	*46*	*16th*	*83·7*	*55·6*	*68·7*	+ *5·6*	*187*	*0*	*0*	*0·00*	− *0·53*	*76·3*	+*23·0*	*68*	+*20*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	62	16th, 22nd	39	19th	59·6	44·7	51·6	− 5·9	67	0	7	1·86	+ 0·94	*	*	*	*	*
	p Glasgow	68	21st	50	19th	63·3	53·7	58·2	+ 0·7	113	0	6	0·56	− 0·16	29·1	− 3·0	25	− 3	Glasgow.
	p Rothesay .. S	66	21st	50	19th	63·0	53·1	57·7	+ 0·4	110	0	6	0·99	+ 0·07	*	*	*	*	*
	a Kilmarnock	71	21st	50	19th	65·0	53·7	59·0	+ 1·4	119	0	5	0·65	—	*28·9*	—	*25*	—	*Kilmarnock.*
	a Colmonell .. S	69	21st	51	19th	63·4	54·0	58·4	+ 1·2	115	0	6	0·48	− 0·25	*	*	*	*	*
	p Dumfries .. S	65	16th, 22nd	50	19th	63·6	54·4	58·7	0·0	117	0	5	0·28	− 0·48	*32·7*	—	*28*	—	*Dumfries.*
	p Cally, Gatehouse S	70	16th	49	22nd	64·0	52·8	58·0	+ 0·2	112	0	6	0·62	− 0·24	*	*	*	*	*
b, ISLE OF MAN	p Douglas	65	22nd	51	19th	62·1	53·9	57·7	+ 0·4	110	0	4	0·41	− 0·27	33·4	− 11·1	29	− 10	Douglas.
															30·4	—	27	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	68	21st	52	19th	63·7	55·0	59·1	+ 2·3	120	0	6	0·54	− 0·31	25·9	—	23	—	Aspatria.
	p Newton Rigg ..	67	21st, 22nd	51	19th	64·2	54·2	58·9	+ 2·1	118	0	4	0·25	− 0·45	26·1	− 13·9	23	− 12	Newton Rigg.
	p Stonyhurst	76	21st	52	19th	66·8	56·3	61·2	+ 3·1	134	0	6	0·52	− 0·35	29·1	− 11·2	26	− 10	Stonyhurst.
	p Blackpool .. M	73	21st	55	16th, 19th	67·2	57·2	61·9	+ 2·7	139	0	5	0·25	− 0·38	29·8	− 12·4	26	− 11	Blackpool.
	p M'nch'ster, Prestwich	82	21st	53	16th	70·0	56·9	63·0	+ 3·9	147	0	4	0·21	− 0·52	*28·6*	− *8·0*	*25*	− *7*	*Prestwich.*
	a Liverpool (Bidston)	80	21st	55	17th, 18th	69·3	57·3	62·9	+ 2·6	146	0	3	0·14	− 0·46	*35·9*	—	*32*	—	*Liverpool.*
	a Hawarden Bridge ..	81	21st	53	16th	70·4	58·0	63·8	+ 3·7	153	0	3	0·05	− 0·44	*28·6*	− *16·2*	*25*	− *14*	*Southport.*
															29·9	—	*27*	—	*Rhyl.*
b, NORTH WALES	p Llandudno .. M	73	21st	55	19th	69·6	58·4	63·6	+ 3·9	151	0	2	0·10	− 0·43	25·8	− 15·9	23	− 14	Llandudno.
	a Holyhead	67	22nd	51	16th	64·6	55·0	59·5	+ 1·3	123	0	4	0·15	− 0·43	28·2	—	25	—	Aberdovey.
	p Bettws-y-Coed ..	?79	21st	47	16th	70·4	56·0	62·7	+ 3·7	145	0	3	0·25	—	30·2	—	27	—	Bettws-y-Coed.
															—	—	—	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	76	20th, 21st	42	16th	70·5	51·8	60·5	+ 2·4	130	0	3	0·05	—	46·5	—	42	—	Llangammarch Wells.
	a Pembroke	67	16th	52	16th	64·4	56·3	60·1	+ 1·8	127	0	2	0·15	− 0·40	38·7	− 7·7	35	− 7	Pembroke.
	p Cardiff	85	21st	51	16th	75·2	56·0	64·9	+ 3·9	160	0	0	0·00	− 0·73	*71·2*	—	*64*	—	*Cardiff.*
															47·0	*0·0*	*42*	*0*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	87	21st	55	16th	76·4	59·2	67·2	+ 5·4	176	0	0	0·00	− 0·65	*75·6*	—	*68*	—	*Clifton.*
	a Shaftesbury .. M	83	21st	51	19th	76·1	54·6	64·6	+ 4·9	158	0	0	0·09	− 0·59	*	*	*	*	*
	a Arlington	81	21st	47	17th	72·9	54·0	62·8	+ 4·6	146	0	0	0·00	− 0·90	?70·3	+21·9	? 64	+20	Newquay.
	a Cullompton .. M	85	21st	48	17th	78·8	53·2	65·1	+ 4·7	162	0	0	0·00	− 0·65	70·2	+27·8	64	+25	Cullompton.
	a Portland Bill ..	70	20th	?56	20th	67·8	58·7	62·7	+ 2·6	145	0	0	0·00	—	*82·2*	—	*75*	—	*Weymouth.*
	p Plymouth	79	22nd	53	17th	72·8	58·3	65·1	+ 4·1	162	0	0	0·00	− 0·65	73·3	+25·7	67	+23	Plymouth.
	p Falmouth	76	20th	57	19th	72·3	59·1	65·2	+ 5·0	162	0	0	0·00	− 0·66	71·1	+19·7	65	+18	Falmouth.
															68·7	—	*62*	—	*Salcombe.*
															85·6	+*35·5*	*78*	+*32*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	67	21st	50	19th	61·0	52·6	56·5	+ 0·1	102	0	6	0·34	− 0·31	*	*	*	*	*
	a Blacksod Point ..	64	18th, 21st	50	19th	62·3	53·3	57·5	0·0	109	0	3	0·55	− 0·13	*	*	*	*	*
	p Markree Castle ..	68	19th	45	19th	65·1	52·6	58·4	+ 1·5	115	0	4	1·00	+ 0·23	16·2	− 13·0	14	− 11	Markree Castle.
	a Birr Castle	74	16th	47	16th	70·4	53·4	61·3	+ 2·9	135	0	4	0·56	− 0·09	*38·0*	+ *6·7*	*34*	+ *6*	*Birr Castle.*
b, East.	p Armagh	73	21st	51	19th	67·9	54·4	60·7	+ 3·0	131	0	4	0·28	− 0·40	24·2	− 8·2	21	− 7	Armagh.
	a Donaghadee	69	21st	50	19th	66·0	53·3	59·2	+ 1·7	120	0	1	0·24	− 0·42	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	76	21st	55	16th, 19th	71·7	57·9	64·3	+ 3·9	156	0	4	0·42	− 0·15	22·7	− 15·1	20	− 13	Phœnix Park.
	a Kilkenny	77	16th	50	16th	72·3	55·6	63·4	+ 4·5	150	0	3	0·34	− 0·28	*	*	*	*	*
	a Waterford	79	17th	52	16th	71·1	56·0	63·0	+ 3·3	147	0	3	0·23	− 0·52	*	*	*	*	*
	a Birr Castle	74	16th	47	16th	70·4	53·4	61·3	+ 2·9	135	0	4	0·56	− 0·09	38·0	+ 6·7	34	+ 6	Birr Castle.
b, West.	a Foynes	70	20th	53	22nd	67·4	56·1	61·4	+ 2·6	136	0	5	0·60	− 0·09	*	*	*	*	*
	a Cahir .. .. M	79	17th	48	16th	71·3	54·4	62·3	+ 3·3	142	0	2	0·30	—	*	*	*	*	*
	a Killarney	74	17th, 21st	50	16th	71·1	55·5	62·8	+ 4·3	146	0	3	0·95	+ 0·19	*	*	*	*	*
	a Valencia	68	17th	51	16th	65·1	56·1	60·3	+ 1·9	128	0	3	1·95	+ 1·89	24·7	− 9·8	22	− 9	Valencia.
	a Roche's Point ..	74	17th	55	18th	67·3	57·0	61·8	+ 2·5	139	0	4	0·12	− 0·52	46·8	—	42	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	75	22nd	55	17th	69·0	58·7	62·4	+ 1·7	143	0	0	0·00	− 0·54	53·1	+ 3·8	49	+ 4	Scilly.
	a Jersey, St. Aubins ..	86	21st	56	20th	74·3	59·4	66·3	+ 4·1	170	0	0	0·00	− 0·50	86·0	+29·5	79	+27	St. Heliers.
	a Guernsey	83	20th	55	16th	74·0	58·2	65·6	+ 4·3	165	0	0	0·00	− 0·49	89·2	+30·8	82	+28	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 80·6 hrs.* (*+27·6 hrs.*), *73* % (*+25* %); *Bournemouth, 85·2 hrs., 78* %; *Bognor,* *hrs.,* %. For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

ATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound ..	—	—	54·5	—
0. — — ..				
0. — — ..				
1. Aberdeen ..	—	—	—	54·5
1. Crathes ..	1	30	58·9	55·6
1. Balmoral ..	1	30	—	—
1. West Linton ..	—	—	—	—
1. Marchmont ..	0	41	60·0	—
2. Cockle Park ..	0	44	61·1	57·5
2. Durham ..	0	48	—	—
2. York ..	—	—	61·8	57·4
2. Hull ..	0	46	63·0	55·7
2. Lincoln ..	—	—	62·2	57·0
2. Rauceby ..	0	41	67·4	59·7
3. Norwich ..	0	40	—	—
3. Yarmouth ..	—	—	68·3	62·1
3. Lowestoft ..	0	41	65·3	59·8
3. Cambridge ..	0	36	66·4	61·0
3. Clacton-on-Sea ..	0	37	63·1	59·1
3. Southend ..	0	46	69·6	—
3. Tottenham ..	0	42	—	62·9

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
4. Harrogate ..	0	45	59·4	57·5
4. Huddersfield ..	0	49	64·3	56·7
4. Buxton ..	—	—	—	—
4. Sheffield ..	0	48	61·8	55·7
4. Nottingham ..	0	44	66·0	59·6
4. Birmingham ..	0	45	60·7	54·3
4. Oxford ..	0	—	—	—
4. Hereford ..	0	39	—	—
4. Cirencester ..	0	40	64·5	58·7
4. Bath ..	—	—	—	—
5. Margate ..	0	43	64·6	60·1
5. Greenwich ..	0	37	—	—
5. Westminster ..	0	? 50	—	—
5. Kew ..	0	39	65·1	58·9
5. Canterbury ..	0	40	66·2	60·8
5. Tunbridge Wells ..	0	44	66·0	—
5. Wisley ..	0	38	66·9	61·3
5. Worthing ..	0	44	67·4	61·2
5. Portsmouth ..	0	44	70·9	63·0
6. Glasgow ..	0	45	—	—
6. Rothesay ..	0	—	—	56·0
6. Colmonell ..	0	46	—	—

STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
6. Dumfries ..	0	43	63·4	60·7
6. Douglas ..	0	49	—	—
7. Aspatria ..	0	47	61·1	55·4
7. Newton Rigg ..	0	44	62·2	56·9
7. Burnley ..	0	47	60·7	55·6
7. Southport ..	0	53	65·5	61·5
7. Manchester City ..	0	48	62·8	59·1
7. Bettws-y-Coed ..	0	46	62·3	57·0
8. Llangammarch Wells	1	30	62·2	55·1
8. Cardiff ..	0	45	66·7	60·3
8. Clifton ..	0	50	—	—
8. Plymouth ..	0	52	71·0	—
9. Armagh ..	0	48	63·2	58·4
9. Markree ..	0	42	61·3	56·6
10. Dublin, Trin. Coll. ..	0	45	63·0	59·1
11. Guernsey, Brooklyn	0	41	66·9	61·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	53	52	52·5
	Kirkwall	55	54	54·4
	Wick	54	53	53·1
SCOTLAND E.	Cromarty	62	56	59·2
	Pennan Bay	60	56	57·3
	Aberdeen, Cove Bay	56	55	55·4
ENGLAND, N.E.	Burnmouth, Berwick	55	54	55·0
	Scarborough	63	54	56·7
ENGLAND, E.	Shipwash Lightship	65	61	62·7
	Margate‡	67	65	65·9
ENGLAND, S.E.	Eastbourne‡	65	64	64·4

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	61	56	57·8
	Ballantrae	56	51	54·1
ENGLAND, N.W.	Port Erin	58	55	55·8
ENGLAND, S.W.	Newquay	64	61	62·7
	Scilly	59	57	58·0
	Plymouth‡	63	62	62·8
	Salcombe	62	59	60·6
IRELAND, N.W.	Sheephaven	60	59	59·4
	Teelin	65	57	59·4
IRELAND, S.W.	Cleggan	60	54	57·0
	Seafield	66	59	61·2
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

Corrections and Additions for June, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—	Nil.																	
Station Values.—Additions.																		
No. 22, p. 179	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	85·5	—	76	—
No. 24, p. 195	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	48·1	—	40	—
No. 25, p. 203	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	20·2	—	17	—
No. 25, p. 203	Douglas	64	19th	44	24th	59·5	49·7	54·3	− 1·3	86	0	4	1·86	+1·25	34·0	−16·8	29	−14
No. 25, p. 203	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	29·7	—	25	—
No. 26, p. 211	Buxton	62	28, 29	44	26, 27	57·9	47·5	52·3	− 3·1	72	0	6	0·69	−0·06	23·2	—	20	—
No. 26, p. 211	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	23·5	—	20	—
Station Values.—Corrections.																		
No. 22, p. 179	Shaftesbury ♏	—	29,1,2,3	—	—	73·9	—	62·6	+10·5	144	—	—	—	—	—	—	—	—
No. 22, p. 179	Killarney	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 23, p. 187	York	—	—	—	—	—	—	—	—	—	—	1	0·06	−0·41	—	—	—	—
No. 23, p. 187	Poltalloch ♐	—	4, 7	41	5th	65·0	45·9	54·8	+ 1·0	90	—	—	—	—	—	—	—	—
No. 23, p. 187	Blackpool	—	—	—	—	—	47·8	56·2	+ 1·7	99	—	—	—	—	—	—	—	—
No. 23, p. 187	Cahir ♏	—	—	—	—	72·3	—	60·6	+ 5·7	130	—	—	—	—	—	—	—	—
No. 24, p. 195	Strathpeffer	—	—	—	—	—	41·9	50·6	− 2·7	60	—	—	—	—	—	—	—	—
No. 24, p. 195	Cheadle ♏	—	—	—	—	—	42·5	51·9	− 3·1	69	—	—	—	—	—	—	—	—
No. 24, p. 195	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	57·2	—	50	—
No. 24, p. 195	Cally ♐	—	—	—	—	—	—	—	—	—	—	—	0·61	−0·04	—	—	—	—
No. 24, p. 195	Llangammarch Wells	—	—	—	—	—	—	—	—	—	—	—	—	—	53·8	—	47	—
No. 24, p. 195	Pembroke	—	—	—	—	62·0	—	54·0	− 1·2	84	—	—	—	—	—	—	—	—
No. 24, p. 195	Armagh	—	—	—	—	—	—	—	—	—	—	—	0·43	−0·13	—	—	—	—
No. 24, p. 195	Waterford	—	—	—	—	—	—	—	—	—	—	—	1·82	+1·20	—	—	—	—
No. 25, p. 203	Nottingham	—	—	—	—	—	—	—	—	—	—	—	—	—	19·1	—	16	—
No. 25, p. 203	Shrewsbury	—	—	—	—	65·3	—	58·2	+ 0·5	113	—	—	—	—	—	—	—	—
No. 25, p. 203	Cally ♐	—	—	—	—	—	—	—	—	—	—	—	1·59	+0·91	—	—	—	—
No. 25, p. 203	Blackpool	—	—	—	—	—	—	—	—	—	—	—	—	—	34·7	−11·4	29	−10
No. 25, p. 203	Llandudno	—	—	—	—	—	—	—	—	—	—	—	—	—	31·8	−15·4	27	−13
No. 26, p. 211	Lincoln	—	—	—	—	—	—	—	—	—	—	3	0·08	−0·38	—	—	—	—
No. 26, p. 211	Tottenham	—	—	—	—	64·4	—	57·9	− 2·1	111	—	—	—	—	—	—	—	—
No. 26, p. 211	Blackpool	—	—	—	—	—	—	—	—	—	—	—	—	—	20·2	−25·1	17	−21
No. 26, p. 211	Pembroke	—	—	—	—	—	—	—	—	—	—	—	0·27	−0·23	—	—	—	—
No. 26, p. 211	Cahir ♏	—	—	—	—	63·7	—	56·2	− 1·6	99	—	—	—	—	—	—	—	—

		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.—Additions.					
No. 24, p. 196	Bath	—	—	62·7	58·7
No. 25, p. 204	Douglas	0	40	—	—
No. 26, p. 212	Buxton	0	41	55·5	52·0
Station Values.—Corrections.					
No. 26, p. 212	Rauceby	—	—	—	56·5

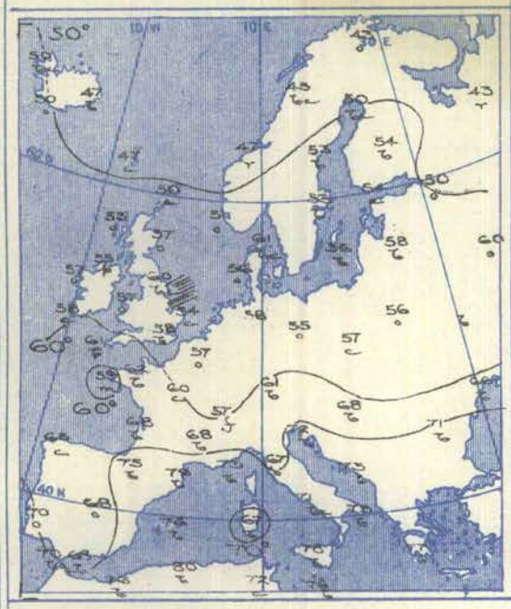
APPARATUS USED IN KITE OR BALLOON ASCENTS.

In Reports Nos. 21 and 23 to 28 inclusive :—
Area of Surface (sq. feet) should read (sq. metres).
Capacity of Balloon (cub. feet) should read (cub. metres).
Length of Wire (feet) should read (metres).

Sunday, 16th July, 1911.

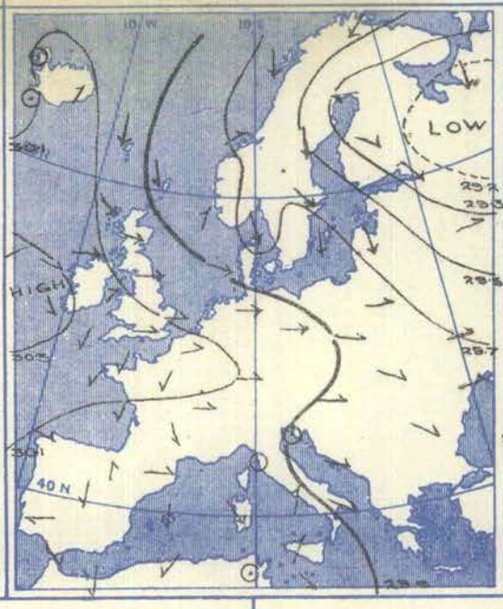
Temperature and Weather.

7 a.m.

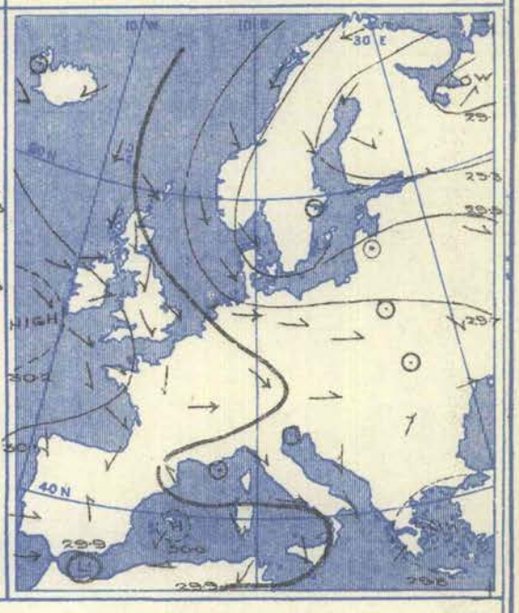


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine at nearly all places in England, France, and southern Europe, as well as in several localities elsewhere, but overcast in the west and north of the United Kingdom, in Norway, and the north of Russia, with showers or steady rain in places. Some rain later in Ireland and Scotland, and also to the Eastward and Southward of the North Sea and at some stations in the south-east of Europe.

Temperature showing no decided change. Morning readings ranging from 34° at Barcelona, 80° at Algiers, and above 75° at some other southern stations to about 60° at several stations in these Islands and in central Russia, and to below 50° in the extreme north of our area. Maxima during day between 75° and 80° in the south of England, about 90° in many parts of France, the Spanish Peninsula, and Algeria.

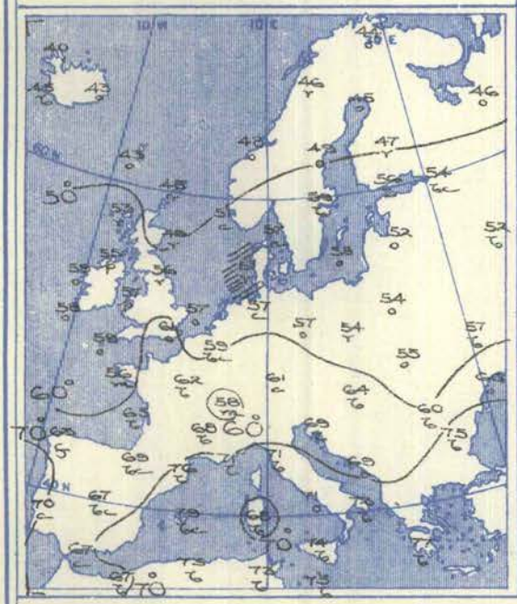
Wind in morning Westerly or North-Westerly over north-western Europe as a whole, light or moderate in force generally, but fresh or strong at some stations in our Islands; mostly light from north or north-east over France and the southern countries. No material change taking place during day.

Barometer in morning highest 30·2 in. to 30·4 in. and upwards in an anticyclone spreading over our western coasts from the Atlantic; lowest 29·2 in. and less in a depression over northern Russia, and 29·8 in. and less over Greece. Barometer falling over north-western Europe generally during day, and pressure becoming very complex over the Mediterranean region.

Monday, 17th July, 1911.

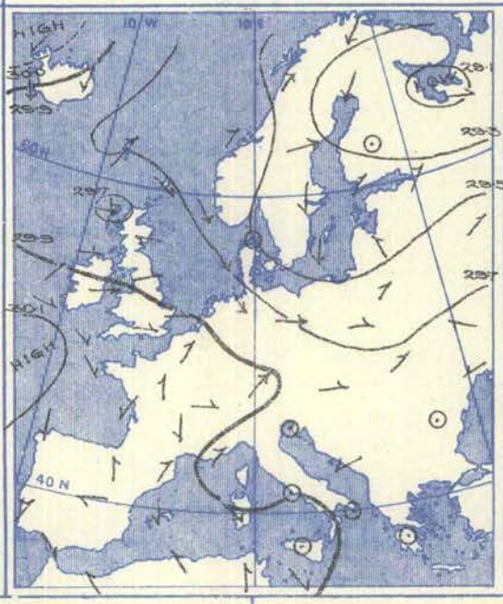
Temperature and Weather.

7 a.m.

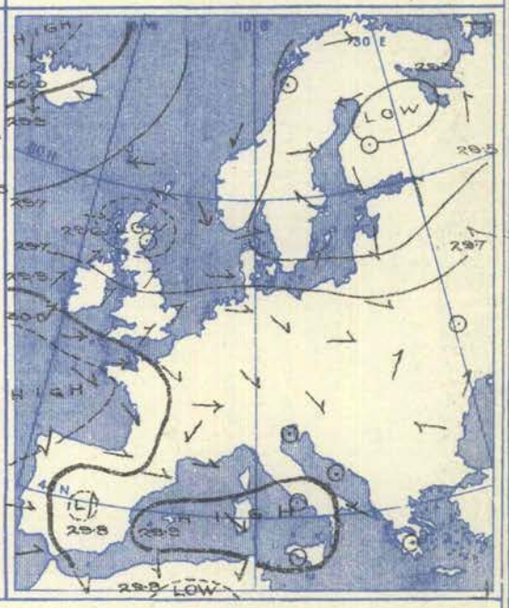


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the south of England, the Channel and France and also over southern and eastern Europe; cloudy or dull over the more northern portion of our area, with rain at many of our own stations and in several parts of Germany and Scandinavia. Rain falling during day at most of our own northern and western stations and in various parts of the Continent, largest measurement 0·7 in. at Riga; thunderstorm in progress at Madrid at 6 p.m.

Temperature fallen over the northern parts of the British Islands, risen in the south, changed rather irregularly, but fallen in most places on the Continent. Morning readings below 50° in the north of Scotland and over the northern parts of the Continent, between 50° and 60° over our Islands and Europe generally, and above 70° over the Mediterranean countries. Maxima below 60° over our extreme northern districts during day, but between 75° and 80° over the southern half of England, about 90° at some of the Mediterranean stations, and as high as 106° at some places in Algeria.

Wind in morning chiefly Westerly or North-Westerly over the British Islands and light or moderate in force generally. Cyclonic circulation shown over northern Europe, the North-Easterly current being strong in the north of Sweden, and that from north-west and west strong on the coasts of Norway and Denmark and in north Germany; variable over the southern European countries. Wind decreasing in force over northern Europe during day, and backing to the south-west over the greater part of England.

Barometer in morning highest 30·0 in. to 30·2 in. off our south-west coasts; lowest 29·1 in. and less in a depression over the White Sea, 29·4 in. and less in a secondary system over the Baltic, and 29·7 in. and less in another lying over the Hebrides and north of Scotland. Disturbances over northern Europe decreasing in intensity during day, but that over Scotland spreading Southwards, with some irregularities over England and Ireland.

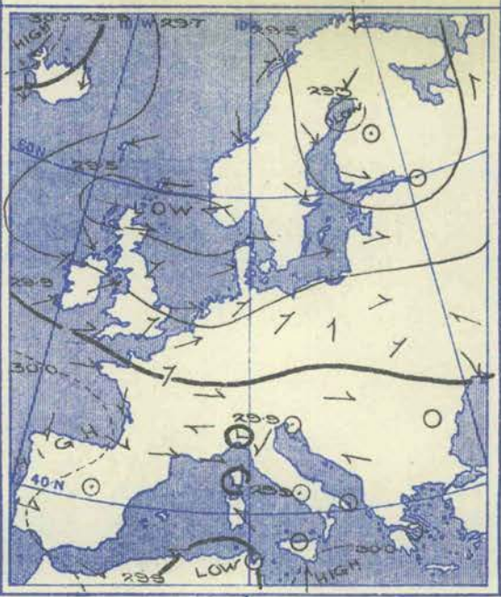
Tuesday, 18th July, 1911.

Temperature and Weather.

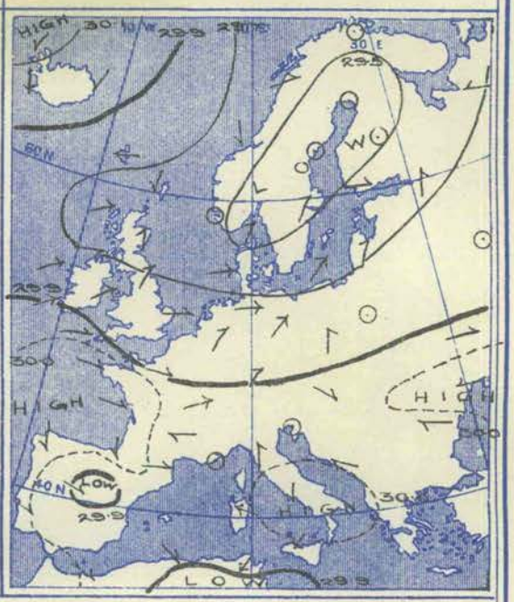
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to cloudless at nearly all stations in the south, but mostly cloudy or overcast in central and northern Europe, with rain in north Germany, in the north of Scotland, and on the shores of the gulf of Finland. Slight rain prevailing at Blacksod Point and Scilly, and fog at Corunna. Considerable amounts of rain later in the northern half of Scotland, as well as in Sweden, northern Russia and Poland, and as much as 1·3 in. at Turin. Thunder at Perpignan and a thunderstorm at Mont Aigoual.

Temperature risen in most regions. Morning readings above 75° over a wide area on the Mediterranean, about 60° in the central countries and many parts of the United Kingdom, and below 50° in the north of Scandinavia. Rising during day to above 70° in various parts of England, to about 80° in Austria and south Germany, and to 90° or a little higher in several localities in southern France and Italy.

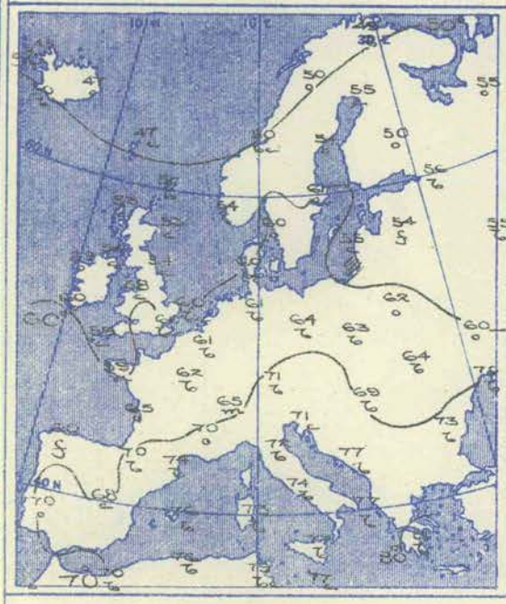
Wind in morning cyclonic over the northern and north-western countries; light or moderate generally, but a fresh breeze prevailing on some of our own coasts. Light, variable airs over the Mediterranean and southern Europe. Becoming cyclonic later in Spain and Algeria, but little other change occurring.

Barometer in morning above 30·1 in. over the ocean between Portugal and the Azores; below 29·5 in. in a depression extending from the Hebrides to beyond the North Sea, and below 29·3 in. in another minimum over the north of the Gulf of Bothnia. Relatively low in shallow disturbances over the south of our area. Northern depressions undergoing some modification in form and intensity by evening, and south-western high pressure system extending towards these Islands.

Wednesday, 19th July, 1911.

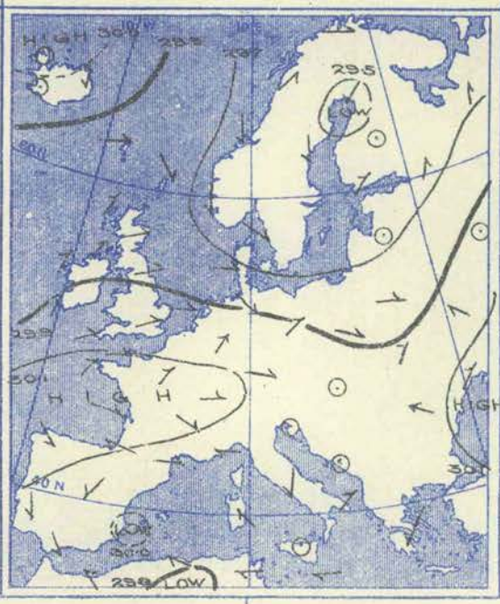
Temperature and Weather.

7 a.m.

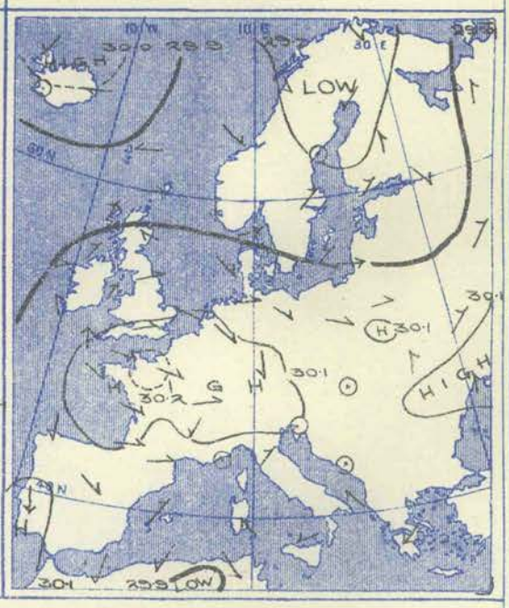


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over nearly the whole of our area, but cloudy or overcast in many parts of these Islands, as well as in Poland, and foggy at Corunna. Rain later in Ireland, Scotland and the north-west of England—more than 1·2 in. at Valencia. Thunderstorms experienced in some southern French districts.

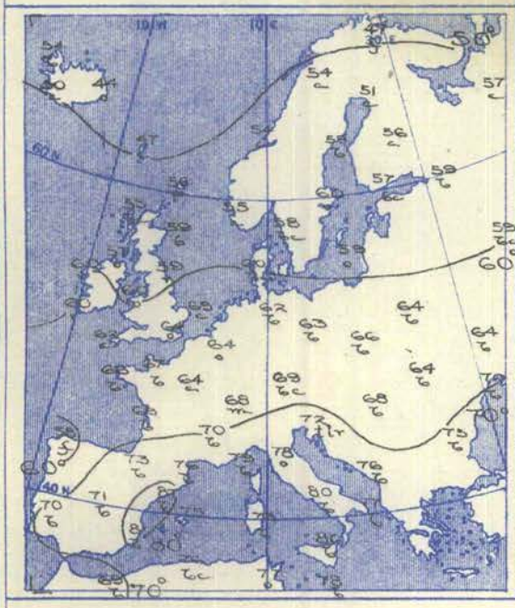
Temperature risen in most regions. Readings in morning 81° at Athens, above 75° at several other stations in the south, about 60° in England, Denmark and North Germany, and about 50° in the north of Norway. Maxima during day above 75° in some English localities, above 80° over a very wide area in southern Europe and above 90° in places. Thermometer touching 70° at Stockholm, but remaining below 60° in the north of Scotland.

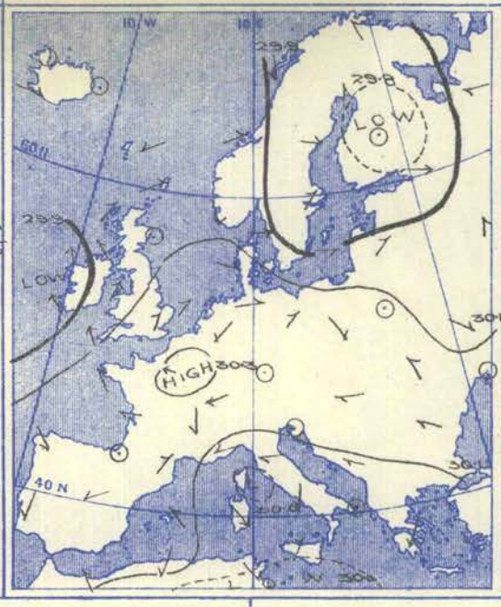
Wind in morning mainly anticyclonic in the central and western countries, cyclonic in the north. Westerly current prevailing over these Islands, light or moderate in force. No general change during day. Increasing in force along the coasts of Denmark and North Germany.

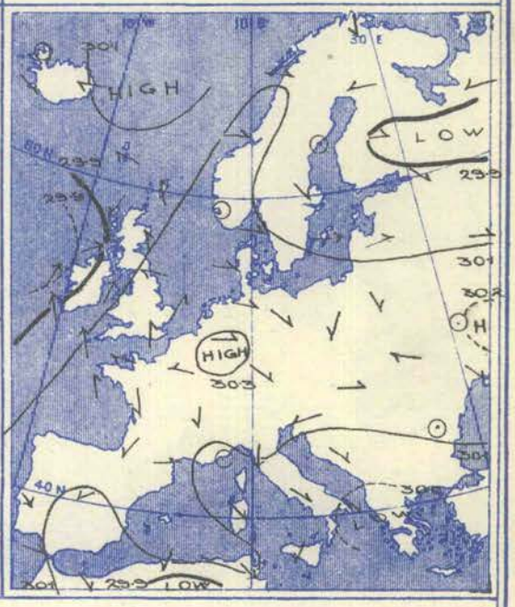
Barometer in morning above 30·1 in. in an anticyclone extending from beyond the Bay of Biscay to central Europe. Below 29·5 in. in a shallow depression over Finland and its vicinity. Below 29·7 in. in a small, shallow disturbance near the Hebrides. Neither the height of the barometer nor the pressure distribution undergoing much change during day.

Thursday, 20th July, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rainy in some parts of Ireland and also at Sheilds and Leith. Fair to very fine over our area generally. Rain experienced later over the west and north of these Islands, on the shores of the Adriatic, and also at Riga. A thunderstorm prevailing at Trieste.

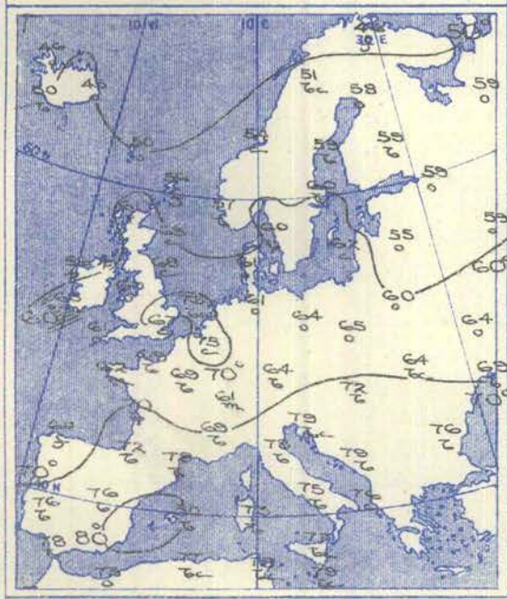
Temperature risen in most regions. Morning readings 87° at Barcelona, about 80° at some other southern stations, and above 60° over a very wide area. Below 50° in the extreme north of Scandinavia. Maxima during day above 80° in some parts of England, about 90° at many stations in the southern half of the Continent, and above 95° in some French localities. Minima during night above 60° in several parts of England.

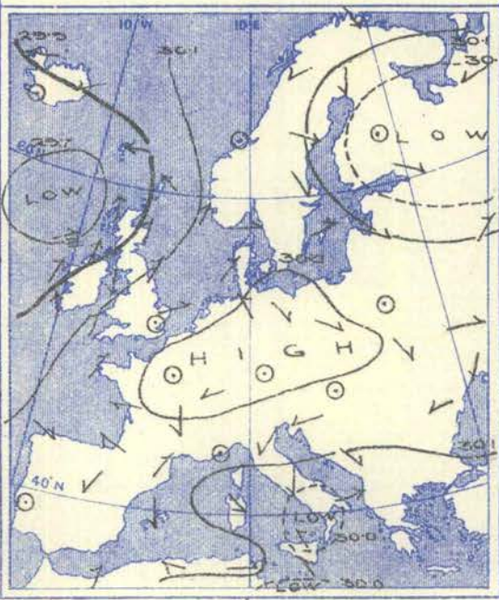
Wind in morning mainly Southerly or South-Westerly over the United Kingdom and of little force. Cyclonic circulations existing both in the north and south of our area; Westerly current fresh to strong on the Baltic. No general change taking place during day.

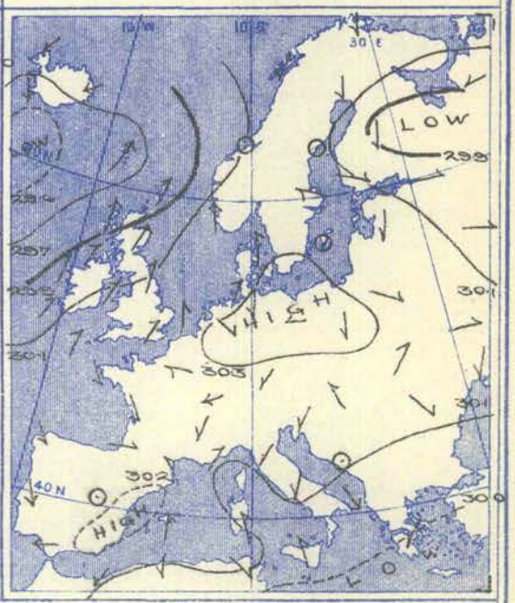
Barometer in morning above 30·2 in. in an anticyclone extending from Spain in a North Easterly direction to the Netherlands, and thence in an East-South-Easterly direction to Transylvania. Below 29·9 in. in a depression over Corsica and lower in two other systems—one to the Westward of Ireland and the other over Finland. No change of importance during day. Atlantic disturbance moving in a Northerly course.

Friday, 21st July, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to very fine and bright over our area as a whole, but cloudy or overcast at many stations in the north and west of these Islands, with showers in places. Fog prevailing at Corunna and Pembroke and an overcast sky in various parts of Russia. Some rain later in Finland and slight amounts in Ireland, Wales, and Scotland.

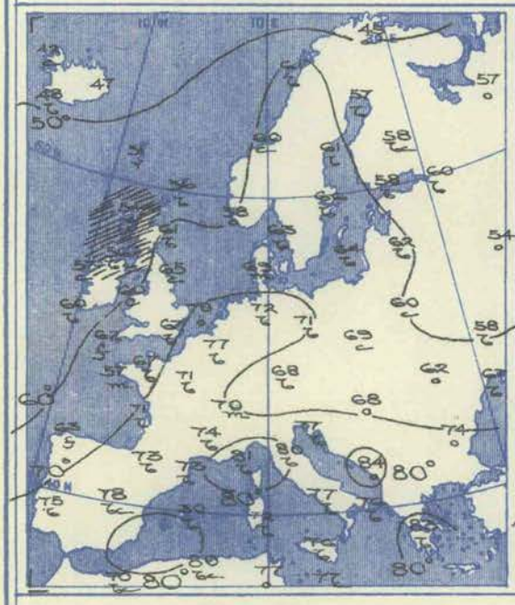
Temperature risen in most regions. Morning readings 73° at Great Yarmouth and above 65° in many parts of Britain. Nearly 60° in the far north-east of the Continent, above 70° very generally in the south, and above 80° locally. Maxima during day above 80° in various parts of England, and as high as 90° at Oxford and Margate, 92° at Camden Square, London, and 94° at Greenwich. Readings of 90° and above very common in France and the Low Countries and also in Italy and the Spanish Peninsula, but thermometer remaining below 80° in most parts of Germany.

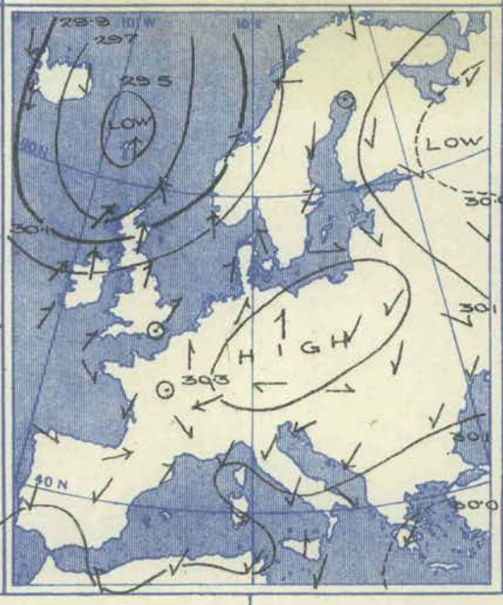
Wind in morning anticyclonic and of very little force over all the central regions of the Continent and the south-east of England; Southerly over these Islands generally, and fresh on the extreme west and north-west coasts. Light cyclonic winds prevalent over the greater portion of the Mediterranean and also in the north-east of our area. Little change during day; Southerly and South-Westerly breeze becoming more decided over the United Kingdom, and a strong breeze from South setting in at Skudesnaes.

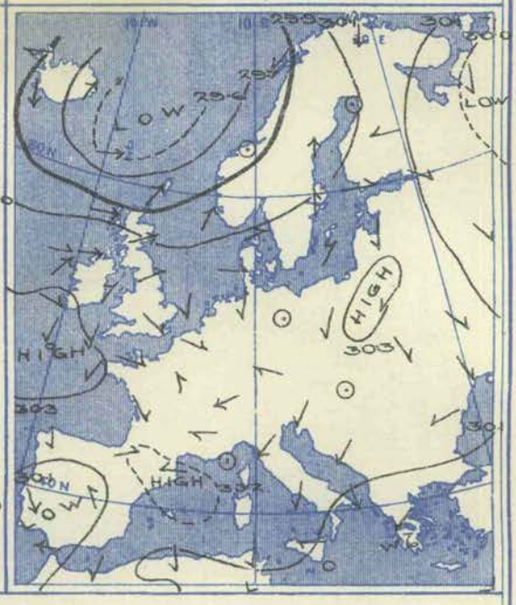
Barometer in morning above 30·3 in. in a large area of high pressure having its maximum over Germany; below 30·0 in. in a depression over Sicily and southern Italy, and also in a larger system over Finland and its vicinity. Below 29·8 in. in a large disturbance on the Atlantic off the north-west of this country. Little modification in the general distribution of pressure taking place during day. Barometer falling rather decidedly in Iceland.

Saturday, 22nd July, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in the morning continuing fair to very fine generally, but showers still falling in the Hebrides and rain reported at Karlstad. Slight rain later in the extreme north-west of these Islands, a considerable fall in Scandinavia, and as much as 1·2 in. at Rome.

Temperature risen or changed irregularly. Readings in morning 74° at Dover, 70° at some other of our south-eastern stations, and about 65° in many parts of England. Readings of 70° or above over a wide area over the southern half of the Continent, and above 80° at several stations on the shores of the Mediterranean. Rising later to about 90° in several parts of southern England, 93° at South Kensington, 94° at Margate, and 96° at Greenwich. Thermometer remaining below 70° in the west and north of these Islands. Maxima above 90° occuring over a wide area in France, central, and southern Europe, and also in the Netherlands.

Wind in morning anticyclonic and light over the major portion of the Continent; cyclonic over the north and west of these Islands and the Icelandic region. South-Westerely current fresh to high on our extreme north-west coasts, and that from North strong to a gale in the west of Iceland. Veering towards West or North-West in most parts of the United Kingdom later in day, but no important change taking place over our area generally.

Barometer in morning ranging from above 30·3 in. in a large high pressure system centred over Germany to below 30·0 in. in a shallow depression over the north of Russia, and below 29·5 in. in a more important disturbance between Scotland and Iceland. Icelandic depression moving slowly eastward later, and pressure increasing again in the west and north of these Islands. Anticyclonic system moving slowly in an easterly direction, but little change taking place in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). (See also p. 228.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	July 16th, 10.0 a.m. to Noon.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	292° 78% 260°, 6	290·2° 78% 250°, 13	289° 78% 290°, 11	285·8° 78% 320°, 13					Clear sky at ascent. At descent nearly overcast. Scud 240 m. above sea.
2	July 19th, 4.0 p.m. to 6.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	292° 76% 250°, 11	290·2° 76% 270°, 16	289° 76% 280°, 15					288·5° 76% 270°, 13 765	Clear sky, with very little Cirro Stratus.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites	2	1
Area of Surface (sq. metres) ..	12	5
Capacity of Balloon (cub. metres) ..	—	—
Length of Wire (metres)	1,500	1,500

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 30. THIRTIETH WEEK, SUNDAY, JULY 23RD, TO SATURDAY, JULY 29TH, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather. Over England the weather, although mostly fair to bright, was more variable than during the preceding week, while in Ireland and Scotland the general condition was unsettled and rain frequent. Thunderstorms occurred in various districts on the 25th and 26th, a violent thunderstorm in London and some other parts of southern England on Friday, and on Saturday thunderstorms over the Kingdom generally, those in Ireland being, locally, very severe. A tidal wave was observed at Teignmouth on Saturday, and in South Wales the electrical disturbance was accompanied by a dust storm, which appears to have crossed the Bristol Channel.

Temperature was above the average, the excess being very slight in Scotland N., but large in all parts of England. The absolute maxima, were again unusually high, and were generally recorded during the latter part of the week. They ranged from 93° in the Midland Counties, 92° in England S.E., and 91° in England N.E. and S.W., to 76° in Scotland E., and to 70° in Scotland N. The lowest of the minima, which occurred during the earlier half of the week, varied, from 37° in Scotland E. to 48° in England S.E., and to 57° in the English Channel. On several nights the minima over a large portion of England were as high as 60°. The lowest grass readings were 29° at Llangammarch Wells and 34° at Burnley, Balmoral and Crathes.

Mean Temperature of the Sea. As a rule the water was warmer than during the corresponding week of last year. The means for the week ranged from 68° at Eastbourne, 67° at Margate, 64° at the Shipwash Lightship and Plymouth, and 63° at Newquay, to 54° at Wick and 53° at Lerwick.

Rainfall was much less than the average in nearly all parts of England and in Scotland E., but considerably above it in Ireland, Scotland N. and W., and the English Channel district. At Alnwick and Bath the week was rainless, and in some other parts of England there was less than 0·10 in. During the thunderstorm in London on Friday 1·1 in. fell at South Kensington in fifteen minutes; at Kilkenny during the storm of Saturday 2·14 in. fell between 4.30 p.m. and 7 p.m; and at Dublin 1·21 in. in fortyfive minutes. At Cahir the rainfall amounted to 1·93 in.

Bright Sunshine was again in excess in England, but deficient in Scotland and the north of Ireland, and only equal to the normal in Ireland S. The percentage of the possible duration ranged from 67 in England S.E., 63 in England E., and 60 in the English Channel to 22 in Ireland N. and Scotland E., and to 14 in Scotland N.

Barometer and Wind. During the earlier days of the week, the pressure distribution over these Islands was anticyclonic, with light Southwesterly winds in the north and north-west, and Easterly breezes in the south and south-east. Later some shallow disturbances appeared, coming either from the westward or southward, or developing over this country. The wind continued light or moderate generally, and varied its direction according to the the position of low pressure systems. It blew freshly or strongly at times, however, on some parts of the north-west coasts, and attained the force of a gale on Saturday night at Malin Head.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 244.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Moderate	Light	Moderate	Very light	Moderate	Very heavy	Light	Light	Heavy	Very heavy	Heavy
	Sunshine ...	Scanty	Scanty	Abundant	Abundant	Abundant	Abundant	Scanty	Abundant	Abundant	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 8 weeks from June 4th, 1911.	Warmth ...	**2** * 2	**3** * 2	**5** * 2	**5** * 2	**5** * 2	**5** * 2	**3** * 2	**4** * 2	**5** * 2	**4** * 2	**4** * 1	**5** * 1
	Rainfall ...	**4** * 3	**1** * 3	**1** * 5	**2** * 4	**1** * 5	**1** * 4	**2** * 2	**1** * 5	**1** * 4	**2** * 4	**3** * 4	**3** * 3
	Sunshine ...	**3** * 2	**3** * 3	**5** * 2	**5** * 2	**5** * 2	**5** * 2	**2** * 4	**5** * 3	**6** * 2	**3** * 3	**3** * 2	**6** * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	**6** * 2	**3** * 6	**4** * 4	**3** * 4	**4** * 5	**3** * 6	**5** * 4	**4** * 3	**3** * 5	**6** * 2	**3** * 4	**2** * 6
	Rainfall ...	**4** * 4	**5** * 4	**6** * 5	**4** * 3	**7** * 4	**5** * 4	**5** * 4	**7** * 4	**7** * 3	**5** * 3	**7** * 4	**4** * 2
	Sunshine ...	**5** * 4	**4** * 7	**1** * 6	**1** * 7	**1** * 7	**1** * 7	**4** * 6	**3** * 4	**2** * 6	**3** * 5	**3** * 5	**1** * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	**2** * 5	**2** * 5	**5** * 8	**5** * 6	**3** * 7	**4** * 8	**3** * 5	**3** * 8	**3** * 7	**4** * 4	**3** * 6	**3** * 6
	Rainfall ...	**3** * 9	**3** * 7	**3** * 8	**5** * 5	**4** * 3	**5** * 4	**1** * 6	**4** * 7	**4** * 5	**2** * 8	**2** * 7	**6** * 4
	Sunshine ...	**7** * 1	**6** * 3	**6** * 5	**2** * 6	**2** * 6	**5** * 6	**4** * 3	**5** * 2	**5** * 6	**5** * 3	**2** * 4	**1** * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	**4** * 1	**5** * 2	**7** * 1	**6** * 1	**6** * 1	**4** * 1	**5** * 3	**5** * 2	**4** * 2	**3** * 1	**6** * 3	**3** * 2
	Rainfall ...	**4** * 6	**3** * 5	**2** * 8	**2** * 3	**2** * 6	**3** * 4	**3** * 8	**3** * 7	**5** * 7	**3** * 7	**4** * 6	**3** * 6
	Sunshine ...	**6** * 3	**4** * 5	**1** * 5	**2** * 3	**1** * 5	**4** * 4	**5** * 3	**4** * 2	**4** * 3	**5** * 4	**4** * 3	**4** * 5

9858/450 Wy. & S., Ltd. 8—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
THIRTIETH WEEK—July 23rd to July 29th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	70	40	61·5	50·3	55·5	+ 0·4	95	+ 3	0	0	6	+ 2	1·29	+0·50	17	- 11	14	- 9
Eastern																		
1. SCOTLAND, EAST	76	37	66·8	51·0	58·3	+ 1·5	114	+ 10	0	0	4	0	0·46	-0·20	25	- 10	22	- 9
2. ENGLAND, N.E.	91	44	76·0	54·8	64·7	+ 6·0	159	+ 42	0	0	2	- 2	0·24	-0·42	60	+ 21	53	+18
3. ENGLAND, EAST	90	45	78·2	58·7	67·8	+ 7·1	181	+ 50	0	0	4	0	0·45	-0·12	70	+ 26	63	+24
4. MIDLAND COUNTIES	93	40	80·5	54·9	66·8	+ 6·8	174	+ 48	0	0	1	- 3	0·18	-0·44	61	+ 22	55	+20
5. ENGLAND, S.E.	92	48	79·9	59·5	69·0	+ 7·4	189	+ 52	0	0	3	0	0·40	-0·16	73	+ 28	67	+26
Western																		
6. SCOTLAND, WEST	81	45	66·9	53·1	59·5	+ 2·1	123	+ 15	0	0	6	+ 2	1·53	+0·75	27	- 10	24	- 9
7. ENGLAND, N.W.	87	41	73·7	55·7	64·1	+ 5·1	155	+ 36	0	0	3	- 1	0·32	-0·46	54	+ 16	48	+14
8. ENGLAND, S.W.	91	40	75·6	57·0	65·7	+ 5·7	166	+ 40	0	0	1	- 2	0·39	-0·37	58	+ 17	53	+15
9 IRELAND, NORTH	77	41	66·3	52·7	59·0	+ 1·5	119	+ 11	0	0	6	+ 2	1·41	+0·63	25	- 5	22	- 5
10. IRELAND, SOUTH	79	44	69·8	55·0	61·9	+ 2·7	139	+ 18	0	0	5	+ 2	1·95	+1·21	34	0	31	0
11. ENGLISH CHANNEL	84	57	75·1	60·3	67·2	+ 5·6	176	+ 39	0	0	4	+ 1	1·09	+0·53	64	+ 12	60	+11
THE SEASON (Summer).—Aggregates, &c., for the Period of 8 Weeks, June 4th to July 29th, 1911.																		
0. SCOTLAND, NORTH	84	35	*	*	*	*	665	- 1	0	- 2	33	+ 1	6·40	+0·65	300	+39	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	778	+ 25	5	+ 4	27	- 1	4·38	-0·39	368	+ 52	38	+ 5
2. ENGLAND, N.E.	91	32	*	*	*	*	950	+108	0	0	20	- 5	4·53	+0·68	426	+ 76	46	+ 8
3. ENGLAND, EAST	92	34	*	*	*	*	1065	+117	0	0	19	- 5	3·00	-0·96	475	+ 91	52	+10
4. MIDLAND COUNTIES	93	32	*	*	*	*	1041	+111	0	0	16	- 8	2·39	-1·68	435	+ 91	48	+10
5. ENGLAND, S.E.	94	32	*	*	*	*	1095	+101	0	0	15	- 7	2·35	-1·37	528	+135	59	+15
Western																		
6. SCOTLAND, WEST	86	31	*	*	*	*	823	+ 19	0	0	31	+ 2	5·36	-0·54	387	+ 52	41	+ 6
7. ENGLAND, N.W.	87	34	*	*	*	*	946	+ 69	0	0	25	- 2	3·67	-1·12	430	+ 81	46	+ 8
8. ENGLAND, S.W.	91	30	*	*	*	*	1046	+121	0	0	16	-10	2·92	-1·85	501	+128	56	+14
9. IRELAND, NORTH	86	31	*	*	*	*	819	+ 11	0	0	27	- 6	4·30	-1·10	344	+ 61	37	+ 7
10. IRELAND, SOUTH	88	36	*	*	*	*	979	+ 84	0	0	23	- 5	4·65	-0·44	391	+ 77	43	+ 8
11. ENGLISH CHANNEL	86	46	*	*	*	*	1089	+101	0	0	17	- 9	3·95	+0·19	552	+103	62	+12
THE YEAR.—Aggregates, &c., for the Period of 30 Weeks, January 1st to July 29th, 1911.																		
0. SCOTLAND, NORTH	84	14	*	*	*	*	1210	+ 96	415	-142	124	-12	27·53	+0·94	840	+ 85	30	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1367	+ 83	492	-128	109	- 3	13·91	-2·12	966	+ 82	35	+ 3
2. ENGLAND, N.E.	91	19	*	*	*	*	1635	+241	371	-104	89	-13	10·80	-1·53	1001	+ 49	37	+ 2
3. ENGLAND, EAST	92	16	*	*	*	*	1840	+201	409	-112	93	- 6	10·82	-1·46	1128	+109	41	+ 4
4. MIDLAND COUNTIES	93	14	*	*	*	*	1832	+183	415	-118	76	-22	8·57	-5·21	981	+ 70	36	+ 3
5. ENGLAND, S.E.	94	16	*	*	*	*	1882	+121	361	- 20	79	-14	10·38	-2·95	1196	+172	44	+ 6
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1558	+162	347	- 78	108	-10	21·69	-2·03	994	+ 87	36	+ 3
7. ENGLAND, N.W.	87	17	*	*	*	*	1691	+190	314	- 72	92	-16	14·06	-3·02	1056	+136	39	+ 5
8. ENGLAND, S.W.	91	13	*	*	*	*	1823	+133	297	- 4	85	-21	14·38	-4·47	1167	+158	43	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	1549	+ 81	302	- 43	102	-26	14·80	-4·56	972	+129	36	+ 5
10. IRELAND, SOUTH	88	18	*	*	*	*	1875	+161	295	+ 36	107	- 7	16·54	-4·07	1034	+ 98	38	+ 4
11. ENGLISH CHANNEL	86	28	*	*	*	*	2019	+112	135	+ 26	93	-20	12·79	-2·89	1300	+ 87	48	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked M or $ are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	62	25th	44	27th	58·7	48·8	53·4	—	80	0	5	0·74	—	26·0	—	21	—	Baltasound.
	a Lerwick	?61	29th	49	23, 24, 27th	58·7	50·7	54·4	+ 1·9	87	0	6	0·62	—	14·1	−16·3	12	−14	Deerness.
	a Stornoway	65	29th	43	29th	59·6	49·0	53·9	− 0·6	83	0	7	2·09	+ 1·34	25·9	− 5·5	22	− 5	Stornoway.
	a Castlebay, Barra Isd.	66	29th	48	26th	58·7	51·4	54·8	− 1·9	90	0	7	1·45	—	40·2	—	35	—	Castlebay.
	a Wick	66	27th	43	26th	61·4	50·0	55·3	+ 0·7	93	0	5	0·27	− 0·36	*	*	*	*	*
	p Strathpeffer	68	27th, 28th	44	26th	64·1	52·0	57·6	+ 1·5	109	0	4	0·33	− 0·30	15·3	−13·3	13	−12	Strathpeffer.
	p Glencarron .. S	70	27th	44	26th	61·2	49·1	54·7	+ 0·6	89	0	7	2·70	+ 1·36	*	*	*	*	*
	p Fort Augustus S	69	27th	40	26th	62·2	50·5	55·9	− 0·4	97	0	7	0·81	+ 0·11	11·9	−10·0	10	− 9	Fort Augustus.
	p Fort William S	69	27th	42	26th	63·5	50·9	56·8	+ 0·3	104	0	7	2·21	+ 0·96	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	p Gordon Castle S	75	28th	48	23rd	68·2	51·4	59·2	+ 2·5	120	0	5	0·52	− 0·28	19·8	—	17	—	Gordon Castle.
	a Nairn	71	27th	40	23rd	65·9	49·9	57·3	+ 0·7	107	0	6	0·72	+ 0·15	14·0	—	12	—	Nairn.
	a Aberdeen	74	28th	47	23rd	67·6	52·7	59·6	+ 3·1	123	0	3	0·11	− 0·53	37·9	+ 1·9	33	+ 2	Aberdeen.
	a Balmoral .. S	73	29th	37	23rd	65·7	49·0	56·8	+ 2·7	104	0	3	0·23	− 0·47	24·0	—	21	—	Crathes S.
	p Crieff .. .. S	73	29th	46	26th	67·1	51·1	58·5	+ 0·7	116	0	6	1·20	+ 0·45	17·1	—	15	—	Balruddery.
	a Leith	76	28th	48	26th	67·4	53·6	60·0	+ 1·6	126	0	4	0·30	− 0·34	*	*	*	*	*
	p West Linton .. S	70	25, 28, 29th	43	26th	64·2	49·0	56·1	+ 0·7	99	0	4	0·34	—	16·3	—	14	—	West Linton.
	p Marchmont .. S	73	28th	46	23rd	68·4	51·0	59·1	+ 2·6	120	0	3	0·29	− 0·48	31·7	− 5·3	28	− 5	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	82	28th	46	26th	73·5	51·9	62·0	+ 4·8	140	0	0	0·00	− 0·65	52·3	—	46	—	Cockle Park.
	a Shields	82	28th	48	24th	72·4	53·1	62·1	+ 4·4	141	0	1	0·12	− 0·48	44·6	+12·3	40	+11	Newcastle.
	p Durham	79	28th	44	24th	74·0	52·0	62·2	+ 3·5	141	0	3	0·14	− 0·52	56·5	+19·6	50	+17	Durham.
	p Rounton .. M	83	28th	45	24th	75·3	53·0	63·4	+ 5·8	150	0	2	0·08	− 0·56	*	*	*	*	*
	p Scarborough .. M	80	27th, 28th	53	24th	72·9	57·7	64·8	+ 6·1	160	0	4	0·73	+ 0·16	58·1	—	52	—	Scarborough.
	p York	85	28th	46	24th	78·7	54·6	65·8	+ 5·9	167	0	4	0·45	− 0·13	50·1	+11·1	45	+10	York.
— b, South.	a Spurn Head	79	27th	55	24th	73·0	59·4	65·7	+ 6·1	166	0	1	0·26	− 0·14	*	*	*	*	*
	a Lincoln	88	28th	49	24th	81·6	56·1	68·0	+ 7·3	182	0	2	0·11	− 0·40	73·5	—	66	—	Skegness.
	a Fulbeck	91	29th	48	24th	82·9	55·5	68·2	+ 7·8	183	0	2	0·26	− 0·27	68·3	—	62	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	84	27th	52	24th	75·6	58·1	66·2	+ 5·8	169	0	5	0·41	—	75·8	—	69	—	Lowestoft.
	p Hillington .. M	90	28th	45	24th	82·1	57·0	68·7	+ 8·1	187	0	4	0·33	− 0·29	74·0	—	67	—	Cromer.
	a Yarmouth	81	28th	56	24th	71·9	61·0	66·1	+ 5·6	169	0	2	0·31	− 0·24	70·8	+26·3	64	+24	Hillington.
	a Norwich														70·2	—	64	—	Yarmouth.
	p Geldeston	84	28th	51	24th	77·2	57·4	66·6	+ 6·2	172	0	5	0·51	− 0·01	*	*	*	*	*
	p Cambridge	90	29th	49	24th	82·3	57·0	68·8	+ 7·1	188	0	3	0·47	− 0·06	75·3	+27·8	69	+25	Geldeston.
	a Felixstowe	78	28th	54	24th	73·1	60·6	66·4	+ 4·7	171	0	5	0·33	—	67·0	+20·4	61	+19	Cambridge.
— b, South.	a Clacton-on-Sea ..	83	28th	57	24th	74·0	60·9	67·0	+ 5·3	175	0	3	0·17	—	77·2	—	70	—	Felixstowe.
	a Rothamsted ..	87	29th	52	24th	79·9	57·1	67·7	+ 7·3	180	0	4	0·56	0·00	70·6	—	65	—	Clacton.
	a Shoeburyness ..	83	27th	58	23rd, 24th	77·7	60·9	68·7	+ 5·5	187	0	2	0·11	− 0·28	61·2	+12·5	56	+11	Rothamsted.
	p Tottenham	90	28th	59	24th	82·6	61·0	71·1	+ 7·8	204	0	5	0·84	—	72·8	—	67	—	Southend.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	83	28th	46	24th	76·4	53·7	64·3	+ 6·8	156	0	2	0·10	− 0·45	68·4	—	63	—	Tottenham.
	a Bawtry	89	28th	40	24th	82·1	52·0	66·0	+ 5·8	168	0	1	0·09	− 0·44	50·0	—	45	—	Harrogate.
	p Buxton .. M	83	28th	38	24th	75·1	51·3	62·4	+ 5·5	143	0	1	0·03	− 0·88	55·6	+18·9	50	+17	Worksop.
	a Nottingham ..	89	28th, 29th	45	24th	81·6	53·4	66·5	+ 5·9	172	0	1	0·04	− 0·49	65·9	—	59	—	Buxton.
	p Birmingham, Edgbsn	89	29th	53	24th	79·3	58·1	68·0	+ 8·1	182	0	1	0·14	− 0·38	60·5	—	55	—	Nottingham.
	a Raunds .. M	91	28th, 29th	48	24th	84·2	55·8	69·0	+ 7·8	180	0	2	0·45	—	59·1	—	54	—	Birmingham.
	a Oxford	91	29th	55	24th	83·3	59·1	70·4	+ 8·9	199	0	1	0·32	− 0·21	*	*	*	*	*
— b, West.	a Cheadle .. M	86	29th	48	24th	78·8	54·5	65·8	+ 7·6	167	0	2	0·15	− 0·51	63·4	+18·1	58	+17	Oxford.
	p Shrewsbury	89	29th	42	24th	79·7	51·5	64·6	+ 5·1	158	0	1	0·32	—	65·7	—	59	—	Sheffield.
	a Hereford .. M	82	29th	46	24th	76·5	55·8	65·4	+ 5·0	164	0	1	0·35	− 0·16	*	*	*	*	*
	a Cirencester	89	29th	50	28th	81·4	53·4	66·4	+ 7·0	171	0	1	0·03	− 0·57	*	*	*	*	*
	a Bath	93	29th	54	23rd	82·1	56·7	68·5	+ 7·6	186	0	0	0·00	− 0·60	63·1	+18·5	58	+17	Cirencester.
5. ENGLAND, S.E.	p Kew	88	29th	57	27th	82·6	61·2	71·2	+ 9·2	204	0	5	0·83	+ 0·31	69·1	—	63	—	Bath.
	a Marlborough ..	89	28th	48	26th	82·7	52·0	66·3	+ 6·7	170	0	2	0·16	− 0·38	72·8	—	67	—	Ramsgate.
	a Margate	86	27th	57	27th	77·7	62·3	69·5	+ 7·5	193	0	3	0·27	− 0·18	68·9	+25·9	63	+24	Marlborough.
	a Wisley, Surrey ..	90	29th	57	23, 26, 27th	82·6	59·4	70·2	+ 7·7	197	0	4	1·19	—	69·2	+22·2	64	+20	Margate.
	a Swarraton .. M	89	29th	54	26th	81·7	57·3	68·7	+ 8·8	187	0	3	0·05	− 0·49	76·4	—	70	—	Wisley.
	a Tunbridge Wells M	92	29th	53	27th	82·7	57·9	69·4	+ 8·6	192	0	2	0·34	− 0·16	74·6	—	69	—	Worthing.
	a Dungeness	78	28th	57	27th	74·2	61·0	67·1	+ 5·8	176	0	3	0·34	− 0·06	81·1	+33·9	74	+31	Tunbridge Wells.
	p Hastings	87	29th	56	24th	78·3	60·9	69·0	+ 7·8	189	0	2	0·24	− 0·26	71·3	—	65	—	Littlestone.
	p Southampton ..	87	28th	59	24th, 26th	80·3	61·4	70·2	+ 7·2	197	0	2	0·12	− 0·43	75·1	+21·4	70	+20	Hastings.
	p Ventnor	82	28th	58	27th	76·1	61·5	68·3	+ 6·1	184	0	4	0·48	+ 0·01	71·8	+21·7	66	+20	Southampton.
															72·9	+23·4	68	+22	Ventnor.
															78·2	+25·2	72	+24	Eastbourne.
LONDON .. —	a Westminster ..	89	28th	60	27th	82·1	62·7	71·7	+ 9·5	208	0	5	1·45	+ 0·94	69·0	+28·3	63	+26	Westminster.
	a Greenwich	92	28th	55	27th	84·9	59·6	71·4	+ 8·1	206	0	3	0·26	− 0·27	71·6	+18·5	66	+17	Greenwich.
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	72	29th	48	26th	64·0	54·7	59·0	+ 1·5	119	0	7	2·08	+ 1·12	*	*	*	*	*
	p Glasgow	71	28th	50	26th	66·2	54·4	59·9	+ 2·6	125	0	6	1·23	+ 0·48	18·7	−12·6	16	−11	Glasgow.
	p Rothesay .. S	70	29th	47	28th	65·7	51·7	58·2	+ 0·9	113	0	7	2·33	+ 1·36	*	*	*	*	*
	a Kilmarnock	73	29th	48	26th	68·0	53·0	60·0	+ 2·4	126	0	7	1·41	—	24·7	—	22	—	Kilmarnock.
	a Colmonell .. S	79	29th	46	23rd	69·5	52·4	60·4	+ 3·2	129	0	5	1·92	+ 0·23	*	*	*	*	*
	p Dumfries .. S	81	29th	48	23rd	69·0	54·7	61·4	+ 2·8	136	0	5	0·87	+ 0·08	35·7	—	32	—	Dumfries.
	p Cally, Gatehouse S	79	29th	45	24th	66·5	49·7	57·5	− 0·1	109	0	3	1·37	+ 0·47	*	*	*	*	*
— b, ISLE OF MAN ..	p Douglas	76	29th	50	23rd	65·9	54·4	59·8	± 2·5	125	0	5	1·90	+ 1·15	35·9	− 7·5	32	− 7	Douglas.
															61·4	—	55	—	Hoylake.
7. — a, ENGLAND, N.W. ..	p Aspatria	77	29th	50	23rd	70·1	54·5	61·8	+ 5·0	139	0	2	0·28	− 0·62	35·3	—	31	—	Aspatria.
	p Newton Rigg ..	80	29th	41	24th	71·1	51·5	60·6	+ 3·9	130	0	2	0·06	− 0·66	50·7	+12·1	45	+11	Newton Rigg.
	p Stonyhurst	80	29th	45	24th	73·3	54·9	63·5	+ 5·6	151	0	1	0·14	− 0·79	59·4	+20·8	53	+19	Stonyhurst.
	p Blackpool .. M	85	29th	43	24th	73·5	54·4	63·3	+ 4·1	149	0	1	0·05	− 0·62	66·0	+25·1	59	+22	Blackpool.
	p M'nch'ster, Prestwich	85	28th	44	24th	78·3	55·8	66·3	+ 7·4	170	0	2	0·13	− 0·64	55·1	+19·7	50	+18	Prestwich.
	a Liverpool (Bidston)	86	29th	52	24th	75·7	58·0	66·2	+ 6·3	169	0	3	0·16	− 0·46	63·2	—	57	—	Liverpool.
	a Hawarden Bridge ..	87	29th	52	24th	76·6	57·1	66·2	+ 6·0	169	0	4	0·15	− 0·38	63·4	+19·5	57	+18	Southport.
															72·1	—	65	—	Rhyl.
— b, NORTH WALES ..	p Llandudno .. M	85	29th	51	24th	74·7	58·3	65·9	+ 6·0	167	0	3	0·93	+ 0·39	55·9	+15·1	50	+14	Llandudno.
	a Holyhead	79	29th	55	23rd, 24th	68·9	57·7	62·9	+ 4·4	146	0	5	0·89	+ 0·29	50·1	—	46	—	Aberdovey.
	p Bettws-y-Coed ..	87	29th	44	24th	74·3	54·7	63·8	+ 4·7	153	0	3	0·44	—	53·9	—	49	—	Bettws-y-Coed.
															54·8	—	50	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	85	29th	40	24th	75·2	47·6	60·4	+ 2·3	129	0	2	0·40	—	54·6	—	50	—	Llangammarch Wells.
	a Pembroke	71	23rd	52	24th	67·0	57·6	62·0	+ 3·6	140	0	2	0·13	− 0·45	40·8	− 4·6	37	− 4	Pembroke.
	p Cardiff	91	29th	54	25th	79·7	57·2	67·7	+ 6·7	180	0	1	0·01	− 0·77	63·9	—	59	—	Cardiff.
															50·0	+ 4·0	46	+ 4	Tenby.
— b, ENGLAND, S.W. ..	a Clifton	91	29th	57	23rd, 24th	81·5	59·9	70·0	+ 8·1	196	0	1	0·07	− 0·60	68·1	—	63	—	Clifton.
	a Shaftesbury .. M	86	29th	54	25th	79·1	57·6	67·6	+ 7·8	179	0	1	0·10	− 0·51	*	*	*	*	*
	a Arlington	87	29th	50	25th	76·1	54·6	64·6	+ 6·3	158	0	2	0·59	− 0·37	64·8	+16·5	60	+15	Newquay.
	a Cullompton .. M	88	29th	50	23rd	81·4	55·5	67·5	+ 7·0	179	0	1	0·20	− 0·46	63·1	+21·1	58	+20	Cullompton.
	a Portland Bill ..	75	28th	58	23rd, 25th	70·1	60·0	64·7	+ 4·2	159	0	1	0·10	—	83·5	—	77	—	Weymouth.
	p Plymouth	82	29th	54	25th	74·2	59·6	66·4	+ 5·2	171	0	1	1·34	+ 0·68	65·5	+18·3	61	+17	Plymouth.
	p Falmouth	73	25, 26, 29th	56	25th	72·1	59·9	65·6	+ 5·4	165	0	2	0·96	+ 0·29	62·5	+11·5	58	+11	Falmouth.
															82·6	—	77	—	Salcombe.
															79·0	+29·7	73	+28	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	64	28th	49	26th	61·6	51·9	56·4	0·0	101	0	7	0·93	+ 0·25	*	*	*	*	*
	a Blacksod Point ..	70	29th	49	23rd	63·6	53·3	58·1	+ 0·4	113	0	5	2·14	+ 1·38	*	*	*	*	*
	p Markree Castle ..	77	29th	41	23rd	67·3	50·7	58·4	+ 1·5	115	0	6	1·54	+ 0·74	22·5	− 6·2	20	− 6	Markree Castle.
	a Birr Castle	75	29th	49	24th	70·6	53·0	61·2	+ 2·6	134	0	5	1·49	+ 0·79	31·9	+ 0·9	29	+ 1	Birr Castle.
— b, East.	p Armagh	74	29th	47	23rd	69·4	54·3	61·3	+ 3·4	135	0	6	1·41	+ 0·68	27·3	− 3·8	24	− 3	Armagh.
	a Donaghadee	70	25th	48	23rd	55·3	52·9	58·7	+ 0·9	117	0	4	0·95	+ 0·26	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City	74	28th	54	24th	71·0	57·5	63·8	+ 3·5	153	0	5	2·29	+ 1·69	28·6	− 8·4	26	− 8	Phœnix Park.
	a Kilkenny	79	29th	44	24th	72·7	55·1	63·3	+ 4·7	149	0	5	3·59	+ 2·94	*	*	*	*	*
	a Waterford	72	29th	47	24th	70·3	56·0	62·7	+ 3·0	145	0	5	2·09	+ 1·31	*	*	*	*	*
	a Birr Castle	75	29th	49	24th	70·6	53·0	61·2	+ 2·6	134	0	5	1·49	+ 0·79	31·9	+ 0·9	29	+ 1	Birr Castle.
	a Foynes	71	29th	51	26th	67·9	54·4	60·7	+ 1·9	131	0	4	0·66	− 0·09	*	*	*	*	*
— b, West.	a Cahir .. .. M	73	23rd, 24th	44	24th	71·5	54·3	62·3	+ 3·4	142	0	4	2·87	—	*	*	*	*	*
	a Killarney	74	29th	49	24th	70·8	53·8	61·7	+ 3·2	138	0	5	1·88	+ 1·06	*	*	*	*	*
	a Valencia	73	29th	52	24th	66·3	54·4	59·9	+ 1·2	125	0	7	1·24	+ 0·31	27·1	− 6·9	25	− 6	Valencia.
	a Roche's Point ..	70	29th	50	24th	66·9	56·1	61·1	+ 1·7	134	0	4	1·46	+ 0·77	47·1	—	43	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	73	29th	57	24th, 25th	70·9	58·9	64·5	+ 3·8	158	0	5	1·25	+ 0·71	52·5	+ 3·0	49	+ 3	Scilly.
	a Jersey, St. Aubins ..	84	23, 28, 29th	59	26th, 27th	78·4	62·3	69·8	+ 7·3	195	0	4	1·27	+ 0·77	67·6	+11·5	63	+11	St. Heliers.
	a Guernsey	82	29th	58	26th, 27th	75·9	59·7	67·2	+ 5·9	176	0	3	0·74	+ 0·23	71·3	+12·9	67	+12	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 77·5 hrs. (+24·8 hrs.), 72 % (+23 %); *Bournemouth*, 79·6 hrs., 74 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	55·3	—
0. — —				
0. — —				
1. Aberdeen	—	—	—	54·5
1. Crathes	0	34	59·7	55·6
1. Balmoral	0	34	—	—
1. West Linton	—	—	—	—
1. Marchmont	0	41	59·0	—
2. Cockle Park	0	41	63·0	57·6
2. Durham	0	39	—	—
2. York	—	—	62·2	58·0
2. Hull	0	41	61·0	56·6
2. Lincoln	—	—	64·1	58·0
2. Rauceby	0	40	69·8	60·5
3. Norwich	—	—	—	—
3. Yarmouth	—	—	71·4	63·6
3. Lowestoft	0	50	67·8	60·4
3. Cambridge	0	41	69·5	62·2
3. Clacton-on-Sea	0	51	65·8	60·3
3. Southend	0	52	73·1	—
3. Tottenham	0	54	—	64·5
4. Harrogate	0	38	60·3	57·9
4. Huddersfield	0	40	66·0	57·6
4. Buxton	0	31	62·4	55·4
4. Sheffield	0	36	63·6	56·4
4. Nottingham	0	40	68·8	60·5
4. Birmingham	0	37	63·1	55·1
4. Oxford	0	—	—	—
4. Hereford	0	39	—	—
4. Cirencester	0	49	66·2	59·6
4. Bath	—	—	69·0	62·9
5. Margate	0	53	67·8	61·5
5. Greenwich	0	44	—	—
5. Westminster	0	54	—	—
5. Kew	0	52	68·0	59·6
5. Canterbury	0	52	65·0	65·7
5. Tunbridge Wells	0	48	68·7	—
5. Wisley	0	49	70·2	62·7
5. Worthing	0	50	69·8	62·0
5. Portsmouth	0	53	73·1	64·5
6. Glasgow	0	42	—	—
6. Rothesay	—	—	—	55·9
6. Colmonell	0	43	—	—
6. Dumfries	0	40	62·3	60·3
6. Douglas	0	47	—	—
7. Aspatria	0	43	61·1	55·5
7. Newton Rigg	0	35	61·8	57·1
7. Burnley	0	34	61·5	56·2
7. Southport	0	35	67·4	61·9
7. Manchester City	0	42	64·6	60·0
7. Bettws-y-Coed	0	44	62·1	57·0
8. Llangammarch Wells	1	29	62·1	55·7
8. Cardiff	0	48	68·4	61·3
8. Clifton	0	53	—	—
8. Plymouth	0	50	71·2	—
9. Armagh	0	41	62·4	58·4
9. Markree	0	35	61·8	56·8
10. Dublin, Trin. Coll.	0	44	63·9	59·7
11. Guernsey, Brooklyn	0	48	67·9	62·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	53	52	52·7
	Kirkwall	55	55	55·0
	Wick	54	53	53·7
SCOTLAND E.	Cromarty	61	56	58·1
	Fennan Bay	59	55	57·9
	Aberdeen, Cove Bay	58	56	57·0
ENGLAND, N.E.	Burnmouth, Berwick	56	55	55·6
	Scarborough	66	55	60·6
ENGLAND, E.	Shipwash Lightship	66	63	64·2
	Margate‡	70	66	67·4
ENGLAND, S.E.	Eastbourne‡	68	66	67·6
SCOTLAND, W.	Lamlash	59	54	56·0
	Ballantrae	58	53	55·5
ENGLAND, N.W.	Port Erin	60	56	57·0
ENGLAND, S.W.	Newquay	64	62	62·7
	Scilly	61	58	60·3
	Plymouth‡	64	63	63·8
	Salcombe	62	58	59·5
IRELAND, N.W.	Sheephaven	59	59	59·0
	Teelin	62	58	59·8
IRELAND, S.W.	Cleggan	59	49	54·2
	Seafield	64	52	60·0
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

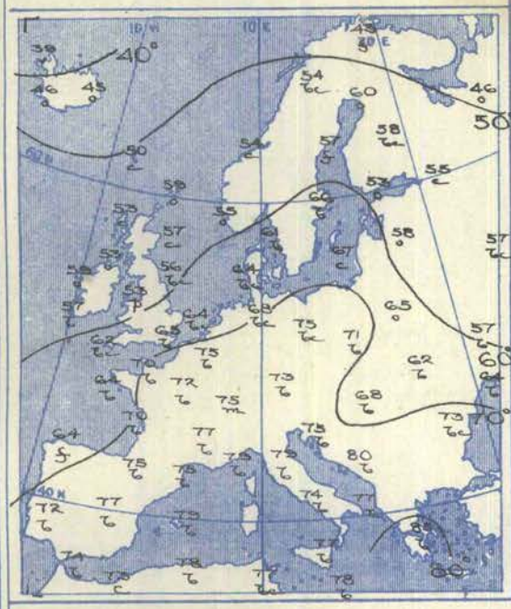
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 23rd July, 1911.

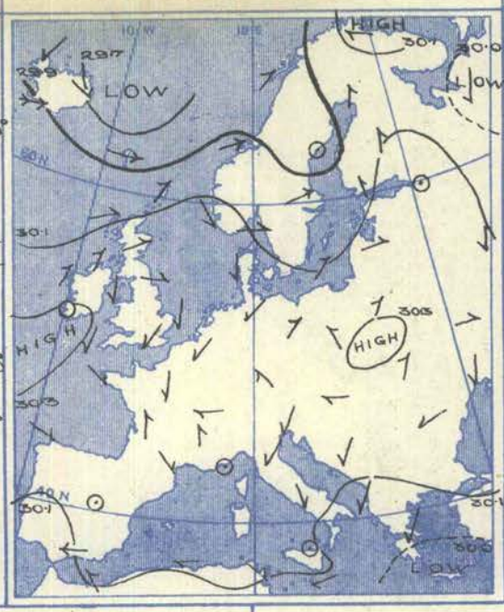
Temperature and Weather.

7 a.m.

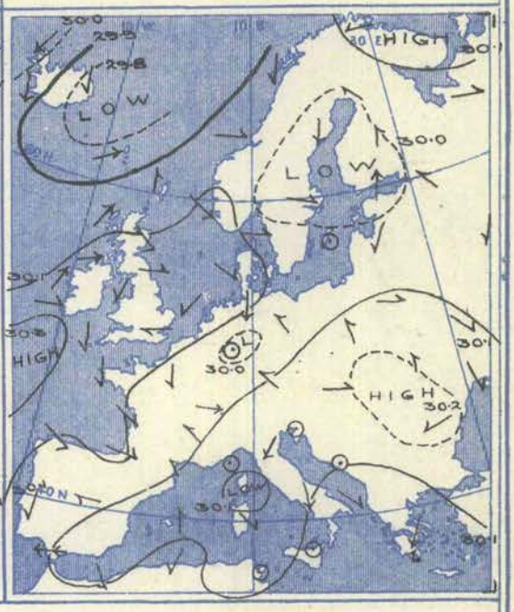


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine generally, but overcast on the shores of the Gulf of Finland, with rain at Helsingfors, and foggy at Corunna. Some rain later in Ireland, the Hebrides and Anglesey, as well as in Finland and several parts of Germany. Thunderstorms locally in France.

Temperature fallen somewhat in the north-west of our area, risen in Germany and the greater portion of France. Readings in morning 85° at Patras and Barcelona, about 80° at many other southern stations, and above 70° in Belgium and central Europe; 60° in the extreme north of Sweden and Finland. Below 55° in the north of Ireland and Scotland, and below 45° in the north of Norway. Maxima during day about 80° in some localities in the south of England, but below 70° over a large portion of the Kingdom. Above 90° over a very extensive area in central and southern Europe, above 95° in several places, 99° at some French stations, 100° at Nancy and 101° at Lyons.

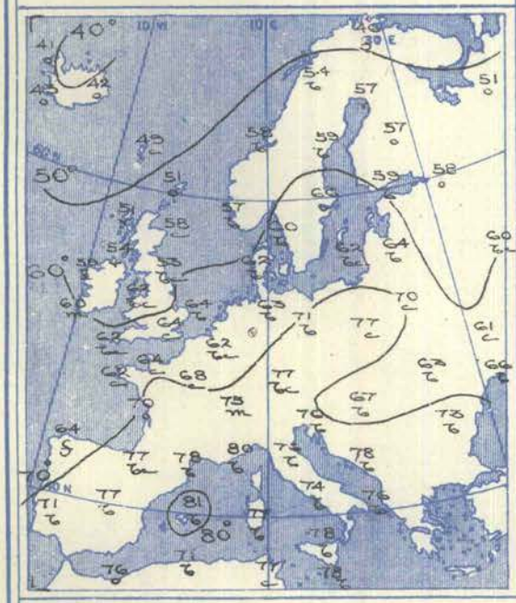
Wind in morning anticyclonic and of little force over the United Kingdom and the southern half of the Continent; cyclonic further north. Westerly current fresh to a gale in Iceland and strong at Christiansund. Backing to the South-Westward by evening on our most north-western coasts and freshening. Veering to the Northward in Iceland and blowing a gale in the west. Little general change elsewhere, but a gale from east springing up at San Fernando.

Barometer in morning above 30·3 in. in two anticyclonic systems, one extending from the Azores to beyond the North Sea, and the other having its maximum in central Europe. Below 29·7 in. in a large depression centred to the eastward of Iceland and relatively low over Scandinavia. A depression of a "V-shaped" character reaching a position off the west of Ireland by evening. Barometer falling over central Europe and France; a shallow depression developing over Germany.

Monday, 24th July, 1911.

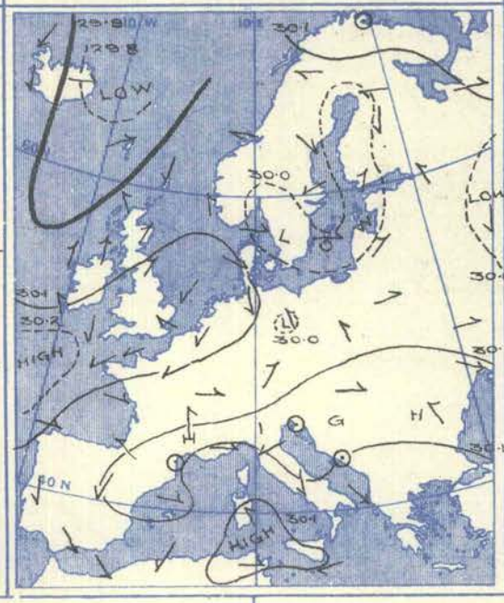
Temperature and Weather.

7 a.m.

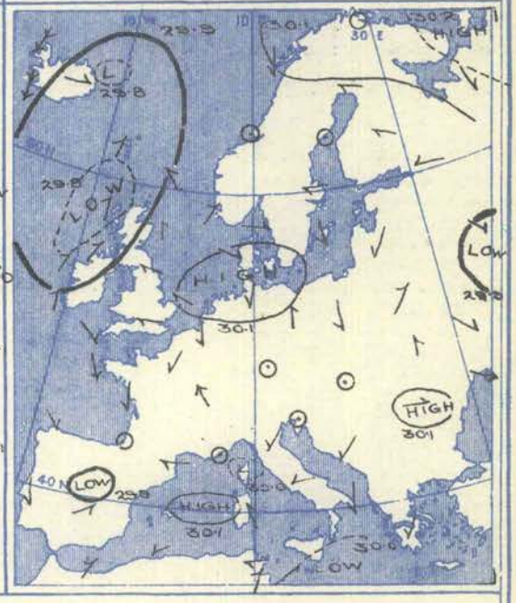


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine generally, but overcast, with rain, in the extreme north-west of the United Kingdom, as well as in the north of Sweden. Considerable or heavy falls of rain later in Ireland and the Hebrides, and slight amounts in many parts of Great Britain. Thunderstorms occurring over a large portion of France, and 1·2 in. of rain at Zurich.

Temperature changed irregularly. Readings in morning above 75° in several parts of France, central and southern Europe, and above 80° on some shores of the Mediterranean; as high as 86° at Cape Sicié. Above 60° in the south and east of England and in the south of Sweden, but only 51° in the Hebrides, Shetland and at Archangel, and 46° at Vardö, rising to 83° in London later and to 90° or higher in many continental regions. Thermometer recording 95° at Breslau, 97° at Biarritz and Besançon, and 98° at Lyons and Bordeaux.

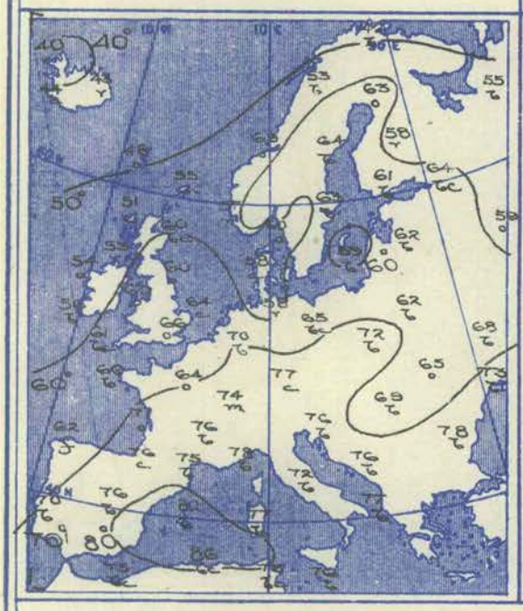
Wind in morning light and variable generally, but mainly North-Easterly on the English Channel and Southerly or South-Westerly in Ireland and Scotland. Moderate to strong from the Northward in Iceland; no general change taking place during day, but Northerly wind increasing to a gale in Iceland.

Barometer in morning above 30·3 in. at the Azores and relatively high thence to Denmark. Below 29·8 in. in a large depression having its minimum to the eastward of Iceland. Pressure giving way considerably during day over the United Kingdom and its neighbourhood, and distribution becoming cyclonic both over this country and France. A well-marked depression developing over central Spain.

Tuesday, 25th July, 1911.

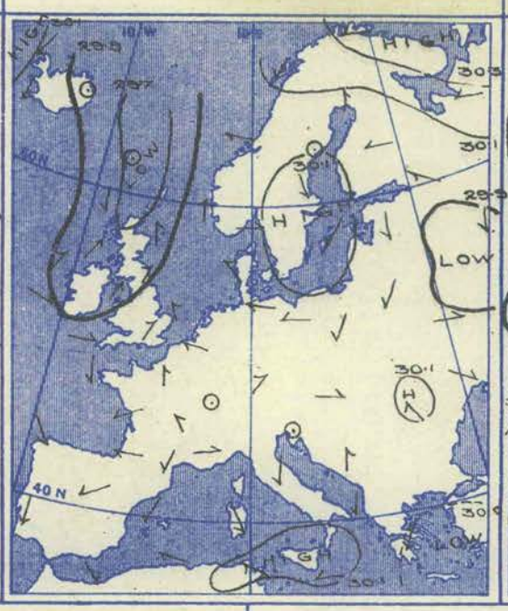
Temperature and Weather.

7 a.m.

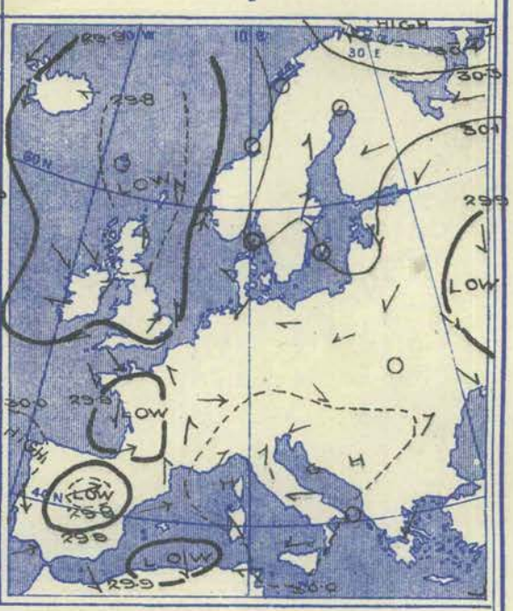


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast at many of our own stations, and rainy at Malin Head; fair to very fine over the greater part of the Continent, but rainy at Cuxhaven, Skudesnaes and in Sweden. Thunderstorms later in several parts of England and France, with heavy rain in places. About 0·5 in. in London, 1·2 in. at Jersey and La hague, and nearly an inch in the west of France. Many stations in England remaining dry and fine.

Temperature risen in various parts of these Islands. Morning readings ranging from 86° at Algiers and about 80° at some other southern stations to about 65° in the south of England and North Germany, to 51° at Stornoway, and to 42° at Vardö. Maxima during day again above 90° over a large area in southern and central Europe and 80° or above at some English stations; 85° in some parts of London. Thermometer remaining below 60° in the extreme north and north-west of these Islands.

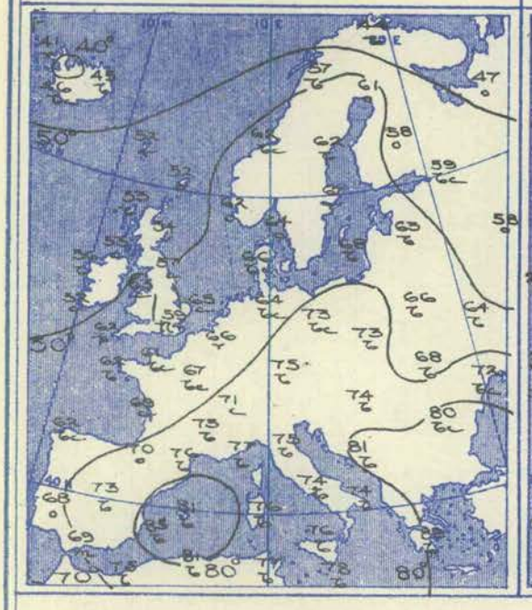
Wind in morning cyclonic very generally over the United Kingdom, France and the Spanish Peninsula, and also in Russia, mainly anticyclonic over the intervening regions. Moderate to very light in force generally, but strong from the Northward in the west of Iceland. No important change later except locally; veering to north-west in the north of Ireland, but shifting to east at Valencia.

Barometer in morning above 30·3 in. in the extreme north of Norway, below 29·7 in. in a large depression of a "V-shaped" character having its minimum off the north of Scotland, relatively low in a large system of irregular form over Spain and Portugal, and also in a large disturbance of little depth over Russia. Depression over these Islands and their vicinity undergoing some modification in form during day, and at the same time extending slowly in an Easterly direction.

Wednesday, 26th July, 1911.

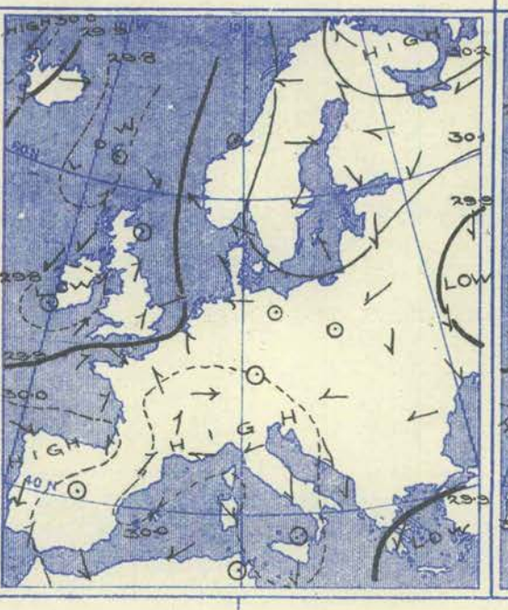
Temperature and Weather.

7 a.m.

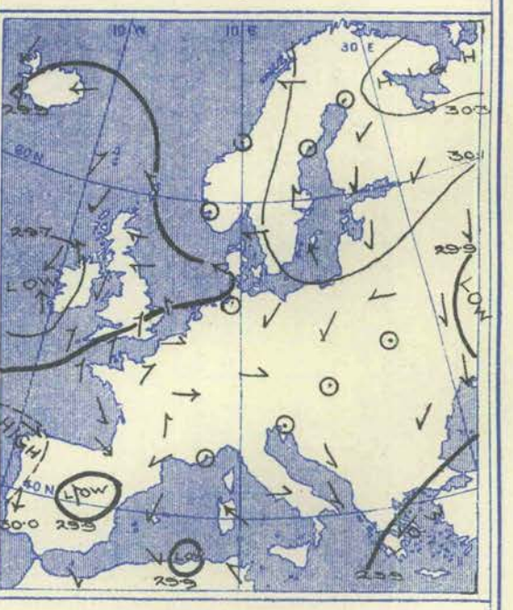


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable in these Islands and this immediate vicinity; rainy in the east of Scotland, at Havre and Brussels, and a thunderstorm prevailing in London. Fair to very bright generally elsewhere, but a thunderstorm at Bilbao. Thunderstorms later in several parts of England and France, with rather heavy rain locally. Heavy rain in the extreme north-west of these Islands and at Skudesnaes.

Temperature fallen over this country and the north of France, risen in many other regions. Morning readings above 80° in several localities in the Mediterranean area and between 65° and 70° over a large portion of the Continent. About 50° in the north-east of Scotland and 44° at Vardö. Maxima during day nearly 80° in central and southern England, between 80° and 90° at most Continental stations south of the Baltic, and above 90° in places; 97° at Palma, 99° at Bucharest and 102° at Tunis.

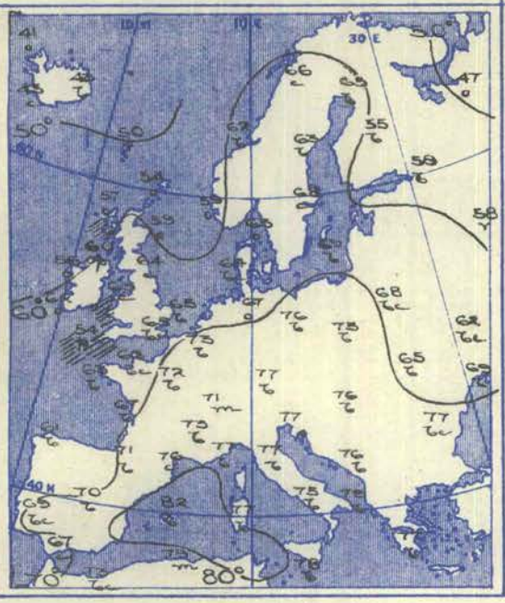
Wind in morning light in force very generally. Mainly cyclonic in the United Kingdom, variable over the Mediterranean, and anticyclonic over northern Europe. Increasing in force from the Southward during day in the west and south-west of these Islands, but little change elsewhere.

Barometer in morning above 30·2 in. in the extreme north of the Continent; below 29·8 in. in a depression over the south of Ireland, and also in another to the northward of Thorshavn. Pressure very uniform over a very wide area. Barometer falling decidedly in Ireland later and gradient growing much steeper. A further rise taking place in the White Sea region.

Thursday, 27th July, 1911.

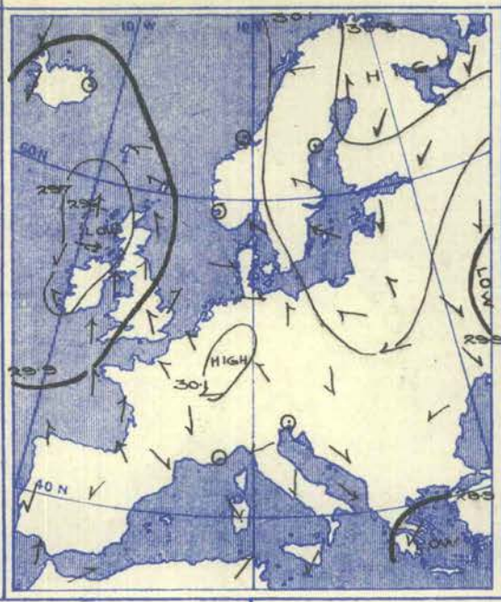
Temperature and Weather

7 a.m.

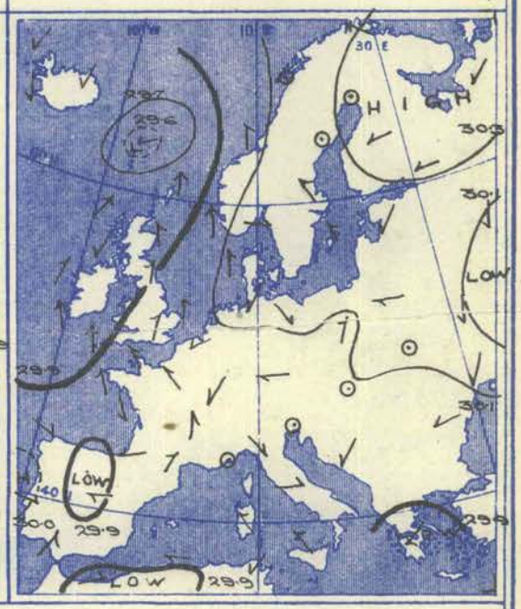


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in the west and north of these Islands, with rain in places. Fair to very bright over our area generally, but rainy at Moscow. Rain later in the extreme west and north of these Islands, and also at Kew. Heavy thunderstorms in several parts of France.

Temperature risen in most districts. Readings in morning above 70° very generally in central Europe, and above 80° at some Mediterranean stations. As high as 66° at Bodö, but below 50° at Archangel. Rising to 84° in London and in central England during day and to about 90° in various parts of France and central Europe. Maxima during day above 80° in some English localities, and above 90° in places over a large area on the Continent Thermometer touching 95° at Florence, Nancy, Lyons and Athens, and 97° at Patras.

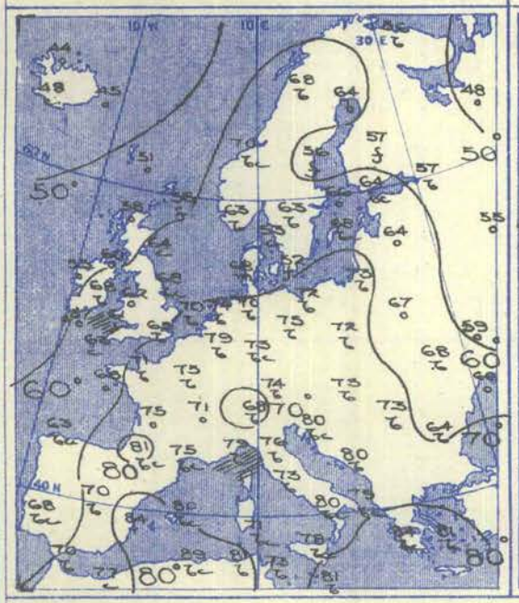
Wind in morning light and rather variable over a large portion of our area, but cyclonic over the United Kingdom and the Icelandic region. Southerly current fresh or strong along the Welsh coasts. Very little change occurring later in day.

Barometer in morning below 29·6 in. in a large depression centred to the westward of the Hebrides, and below 29·9 in. in another disturbance in central Russia. Above 30·3 in. in an anticyclone in the far north of the Continent, and above 30·1 in. in a secondary high pressure system over the west of Germany. Main anticyclone extending in a Southerly direction during day, and the north-western depression moving Northwards.

Friday, 28th July, 1911.

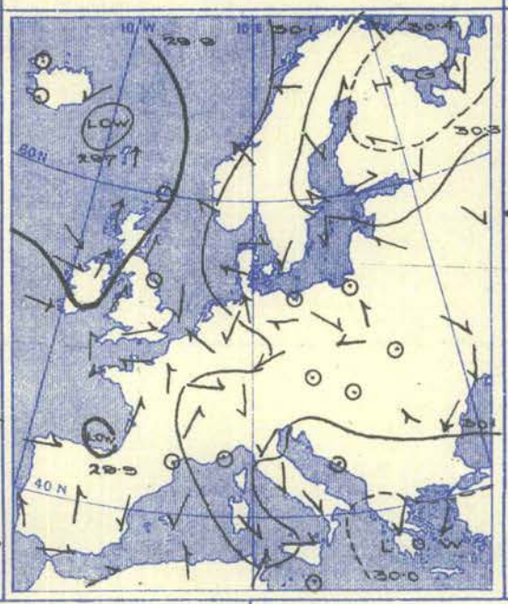
Temperature and Weather

7 a.m.

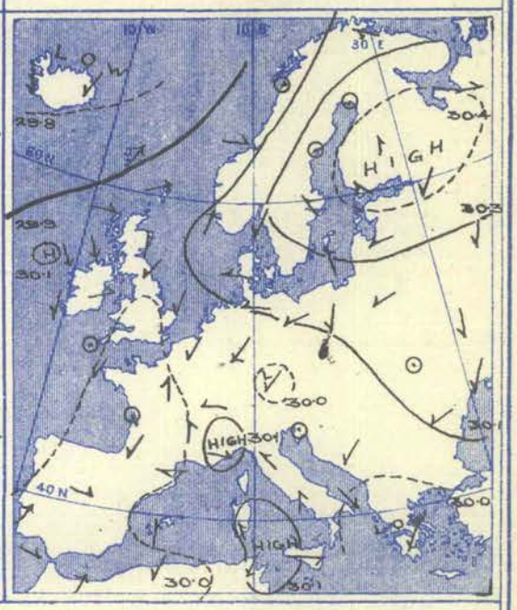


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at some of our extreme north-western stations and overcast in a large portion of Russia, but fair to very fine over our area generally. Severe thunderstorms in London and some other parts of south-eastern England later, as much as 1·1 in. of rain in fifteen minutes at South Kensington. A thunderstorm at Nancy and a little rain at some stations in the Netherlands. Nearly an inch of rain at Nemours.

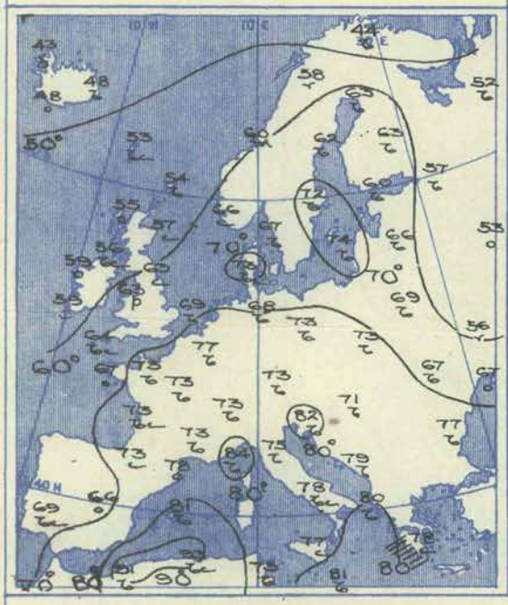
Temperature showing no general change. Morning readings ranging from 89° at Algiers, about 80° at some other southern stations, and 78° at Dover to 55° at Wick, and to 48° at Archangel. Maxima during day 92° in some parts of London, and a few degrees higher in the Low Countries, France, and at various stations in the Mediterranean region; 97° at Toulouse and 99° at Frankfurt and Oran. Thermometer remaining below 90° in nearly all parts of Germany, as well as in some Austrian and Spanish localities.

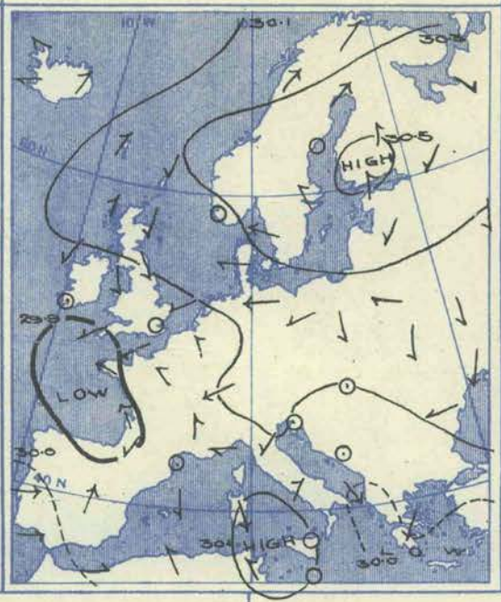
Wind in morning North-Westerly on the west coast of Ireland, but Southerly over these Islands generally. Mainly anticyclonic over the greater portion of the Continent, and light in force, but a gale from North-East prevailing at Athens. No general change occurring during day, but becoming more variable in the United Kingdom. Gale subsiding at Athens. Wind rising to 54 miles per hour in squalls during the thunderstorm in London between 5.10 and 5.30 p.m.

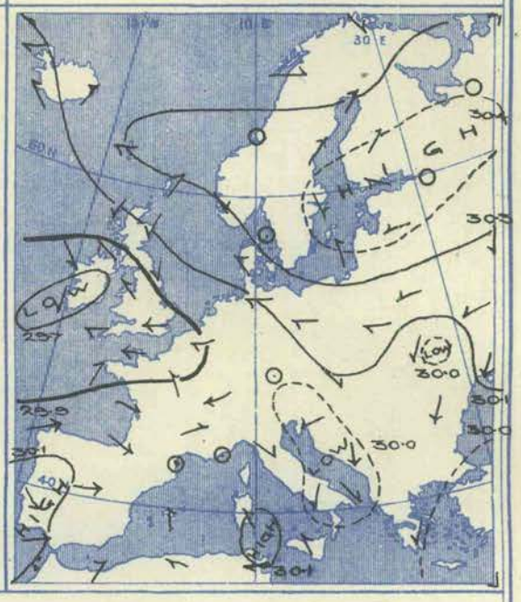
Barometer in morning above 30·4 in. in a very large anticyclone centred over Finland and northern Russia. Below 29·8 in. in a large depression with slight gradients between Scotland and Iceland, and relatively low in shallow systems over the Bay of Biscay and the south-east of Europe. Bay of Biscay depression extending to the south of England later, but little modification taking place in the general distribution. High pressure system expanding in a south-westerly direction.

Saturday, 29th July, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning variable in these Islands; cloudy at most stations, showery at Holyhead. Fair to bright over the major portion of the Continent, but a thunderstorm prevailing at Havre and Bilbao and rain at Kieff and Christiansund. Thunderstorms later in several parts of the United Kingdom, very heavy in some Irish localities; more than an inch of rain in various parts of Ireland and smaller quantities over these Islands generally. At Kilkenny 2·14 in. fell between 4.30 p.m. and 7 p.m. Heavy thunderstorms in France; as much as 2·2 in. of rain at Nantes.

Temperature showing no general or decided change. Morning readings above 80° on some shores of the Mediterranean; as high as 93° at Algiers. About 70° in the south of England and over a wide area on the Continent; about 55° in the north of Scotland and at Moscow, and 44° at Vardö. Rising to 93° during day at Bath, to 91° at Oxford and in some parts of London, and to 88° at Aberystwyth. Maxima above 90° over a large area on the Continent 96° at Paris and Brussels, and 97° at Nancy and Charleville.

Wind in morning showing an extensive anticyclonic movement over the northern half of the Continent and a light cyclonic circulation over the Bay of Biscay region. Cyclonic movement extending to the United Kingdom during day, but no important change occurring on the Continent.

Barometer in morning ranging from above 30·4 in. in a very large high pressure system over northern Europe to below 29·9 in. in a shallow depression centred over the Bay of Biscay. Latter system moving in a northerly direction later, apparently increasing in intensity, and undergoing some modification in form. Little change taking place within the anticyclone on the Continent. Barometer beginning to rise again in Spain and Portugal.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1911.												
1	July 23rd.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	296·4° 60% 30°, 6·7							293° 60% 25°,	350	Not sufficient wind to sustain Kite above 350 m. At noon wind veered to 180°, rate 8 m.p.s.
2	July 26th, 3h. 59m. p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	190°, 3·5		205°, 5	210°, 6·5	210°, 6·5	220°, 9	215°, 9			Two theodolites. Balloon lost in cloud, cu. to str.-cu., amt. 7.
3	July 28th, 2h 57m. p.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	150°, 1		150°, 2·5	170°, 1	250°, 2	200°, 4·5	185°, 4	190°, 6	3,000	Two theodolites. Few small detached cu.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	—	—	—
Area of Surface (sq. metres) ..	—	—	—
Capacity of Balloon (cub. metres) ..	—	·038	·013
Length of Wire (metres)	—	—	—

South Kensington, London, S.W. *August 2nd, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 31. THIRTY-FIRST WEEK, SUNDAY, JULY 30TH, TO SATURDAY, AUGUST 5TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the country generally the weather of last week was less settled than at any time since the close of June, but in the east and south-east of England the rainfall was again slight. Thunderstorms were experienced at various times in most districts, and were accompanied in a few cases by exceedingly heavy showers.

Temperature was again above the normal, the excess amounting to about 6° in the Midland Counties and to about 7° in England North-east and East. The highest of the maxima were observed in the earlier half of the week, and ranged from 88° in England East and 85° in England South-east to 75° in Scotland West and Ireland S., and to 74° in Ireland North. The lowest readings were observed at times varying greatly in different localities. In the English Channel the thermometer did not fall below 57°, and in England North-east and North-west below 52°, but in Ireland North it sank to 45°, and in Scotland East to 42°. The lowest grass readings reported were 37° at Llangammarch Wells, 38° at Crathes and 39° at Markree Castle.

Mean Temperature of the Sea was higher than in the corresponding week of last year, excepting round Shetland, where it was a trifle lower. On the English coasts the difference was rather considerable; at Margate it amounted to more than 8°. The mean values for the week ranged from 70° at Margate and 65°, and upwards on the east and south-east coasts of England generally to about 54½° at Wick and to a trifle below 54° at Lerwick.

Rainfall was largely in excess of the average in most of the western districts, but a little below it in Scotland west. Over the northern, eastern and central parts of Great Britain there was a general deficiency, and at many places in England east and south-east the amount was quite inappreciable. In the west the heaviest falls occurred on Friday and Saturday; on the former day 1·3 in. was collected at Holyhead, 1·4 in. at Falmouth and 1·5 in. at Bettws-y-Coed, while on the latter day 1·1 in. was registered at Southport, 1·2 in. at Cullumpton and 1·4 in. at Liverpool.

Bright Sunshine was in excess of the average in all districts excepting the English Channel. The percentage of the possible duration ranged from 59 in England East and 57 in England South-east to 36 in Ireland South, 34 in Scotland North and 32 in Ireland North.

Barometer and Wind. Throughout the week the weather was dominated almost entirely by large barometrical depressions which extended over the United Kingdom from the Atlantic. Owing, however, to the existence of a large high pressure system over northern and central Europe the central portions of the disturbances kept outside our western coasts, and in the eastern parts of the country their effect upon the weather was small. Over England and Ireland the wind was chiefly from the Southward or South-Westward, but in Scotland it was more often from the South-Eastward. Early on the morning of July 30th, and again on the night of August 2nd, the wind increased to the force of a gale on the western and northern coasts of Ireland.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 252.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Moderate	Moderate	Light	Moderate	Light	Moderate	Heavy	Heavy	Moderate	Heavy	Moderate
	Sunshine ...	Abundant	Very abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

		0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SUMMER, 9 weeks from June 4th, 1911.	Warmth ...	3 * 2	4 * 2	6 * 2	6 * 2	6 * 2	6 * 2	4 * 2	5 * 2	6 * 2	5 * 2	5 * 1	6 * 1
	Rainfall ...	4 * 4	1 * 3	1 * 5	2 * 5	1 * 5	1 * 5	2 * 2	2 * 5	2 * 4	2 * 4	4 * 4	3 * 3
	Sunshine ...	4 * 2	4 * 3	6 * 2	6 * 2	6 * 2	6 * 2	3 * 4	6 * 3	7 * 2	4 * 3	4 * 2	6 * 2

PAST SEASONS.

		0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9869 450 Wy. & S., Ltd. 8—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
THIRTY-FIRST WEEK—July 30th to August 5th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	79	49	67·4	55·1	60·9	+ 5·8	132	+ 40	0	0	5	0	0·55	−0·31	39	+ 13	34	+12
Eastern																		
1. SCOTLAND, EAST	81	42	71·6	54·0	62·3	+ 5·7	142	+ 39	0	0	3	− 1	0·40	−0·23	54	+ 19	48	+17
2. ENGLAND, N.E.	83	52	75·1	57·1	65·6	+ 6·9	165	+ 48	0	0	4	+ 1	0·52	−0·17	56	+ 17	51	+15
3. ENGLAND, EAST	88	51	78·0	58·4	67·6	+ 7·1	179	+ 49	0	0	3	0	0·13	−0·36	63	+ 20	59	+18
4. MIDLAND COUNTIES	84	51	75·9	56·6	65·7	+ 5·9	166	+ 42	0	0	4	+ 1	0·44	−0·12	51	+ 12	47	+11
5. ENGLAND, S.E.	85	49	75·1	58·2	66·2	+ 4·7	169	+ 33	0	0	2	− 1	0·11	−0·37	61	+ 16	57	+15
Western																		
6. SCOTLAND, WEST	75	47	68·4	56·3	62·0	+ 4·8	140	+ 34	0	0	6	+ 2	0·80	−0·07	44	+ 7	40	+ 7
7. ENGLAND, N.W.	80	52	71·9	58·0	64·6	+ 5·6	158	+ 39	0	0	5	+ 2	1·52	+0·74	46	+ 8	42	+ 7
8. ENGLAND, S.W.	77	47	70·4	58·0	63·8	+ 3·9	153	+ 28	0	0	5	+ 2	1·19	+0·52	49	+ 6	45	+ 5
9 IRELAND, NORTH	74	45	67·4	54·5	60·5	+ 2·9	130	+ 21	0	0	6	+ 1	1·07	+0·26	35	+ 5	32	+ 4
10. IRELAND, SOUTH	75	48	68·1	56·7	62·1	+ 2·9	141	+ 21	0	0	7	+ 3	1·58	+0·77	38	+ 4	36	+ 4
11. ENGLISH CHANNEL	76	57	70·9	60·3	65·3	+ 3·6	163	+ 25	0	0	4	+ 1	0·66	+0·13	53	− 3	51	− 3
THE SEASON (Summer).—Aggregates, &c., for the Period of 9 Weeks, June 4th to August 5th, 1911.																		
0. SCOTLAND, NORTH	84	35	*	*	*	*	797	+ 39	0	− 2	38	+ 1	6·95	+0·34	339	+53	31	+ 5
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	920	+ 64	5	+ 4	30	− 2	4·78	−0·62	422	+ 71	39	+ 7
2. ENGLAND, N.E.	91	32	*	*	*	*	1115	+156	0	0	24	− 4	5·05	+0·51	482	+ 92	46	+ 9
3. ENGLAND, EAST	92	34	*	*	*	*	1244	+166	0	0	22	− 5	3·13	−1·32	538	+111	53	+11
4. MIDLAND COUNTIES	93	32	*	*	*	*	1207	+153	0	0	20	− 7	2·83	−1·80	486	+103	48	+10
5. ENGLAND, S.E.	94	32	*	*	*	*	1264	+134	0	0	17	− 8	2·46	−1·74	589	+151	58	+15
Western																		
6. SCOTLAND, WEST	86	31	*	*	*	*	963	+ 53	0	0	37	+ 4	6·16	−0·61	431	+ 59	41	+ 6
7. ENGLAND, N.W.	87	34	*	*	*	*	1104	+108	0	0	30	0	5·19	−0·38	476	+ 89	46	+ 9
8. ENGLAND, S.W.	91	30	*	*	*	*	1199	+149	0	0	21	− 8	4·11	−1·33	550	+134	55	+13
9. IRELAND, NORTH	86	31	*	*	*	*	949	+ 32	0	0	33	− 5	5·37	−0·84	379	+ 67	36	+ 6
10. IRELAND, SOUTH	88	36	*	*	*	*	1120	+105	0	0	30	− 2	6·23	+0·33	429	+ 81	42	+ 8
11. ENGLISH CHANNEL	86	46	*	*	*	*	1252	+126	0	0	21	− 8	4·61	+0·32	605	+100	61	+10
THE YEAR.—Aggregates, &c., for the Period of 31 Weeks, January 1st to August 5th, 1911.																		
0. SCOTLAND, NORTH	84	14	*	*	*	*	1342	+136	415	−142	129	−12	28·08	+0·63	879	+ 98	30	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1509	+122	492	−128	112	− 4	14·31	−2·35	1020	+101	35	+ 4
2. ENGLAND, N.E.	91	19	*	*	*	*	1800	+289	371	−104	93	−12	11·32	−1·70	1057	+ 66	37	+ 2
3. ENGLAND, EAST	92	16	*	*	*	*	2019	+250	409	−112	96	− 6	10·95	−1·82	1191	+129	42	+ 5
4. MIDLAND COUNTIES	93	14	*	*	*	*	1998	+225	415	−118	80	−21	9·01	−5·33	1032	+ 82	36	+ 3
5. ENGLAND, S.E.	94	16	*	*	*	*	2051	+154	361	− 20	81	−15	10·49	−3·32	1257	+188	44	+ 7
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1698	+196	347	− 78	114	− 8	22·49	−2·10	1038	+ 93	36	+ 3
7. ENGLAND, N.W.	87	17	*	*	*	*	1849	+229	314	− 72	97	−14	15·58	−2·28	1102	+143	39	+ 5
8. ENGLAND, S.W.	91	13	*	*	*	*	1976	+161	297	− 4	90	−19	15·57	−3·95	1216	+164	43	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	1679	+102	302	− 43	108	−25	15·87	−4·30	1007	+134	35	+ 5
10. IRELAND, SOUTH	88	18	*	*	*	*	2016	+182	295	+ 36	114	− 4	18·12	−3·30	1072	+102	38	+ 4
11. ENGLISH CHANNEL	86	28	*	*	*	*	2182	+137	135	+ 26	97	−19	13·45	−2·76	1353	+ 84	48	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*66*	*2nd*	*54*	*4th, 5th*	*63·5*	*54·8*	*58·9*	—	*118*	*0*	*6*	*0·73*	—	*56·5*	—	*48*	—	*Baltasound.*
	a Lerwick	67	2nd	53	30th	63·3	55·0	58·9	+ 6·6	118	0	5	0·82	—	53·9	+24·3	47	+21	Deerness.
	a Stornoway	71	1st	54	30, 4, 5th	65·7	55·0	60·0	+ 5·9	126	0	7	0·57	− 0·26	37·3	+ 5·9	33	+ 5	Stornoway.
	a *Castlebay, Barra Isd.*	*65*	*30th*	*55*	*3, 4, 5th*	*61·1*	*55·7*	*58·2*	+ *1·6*	*113*	*0*	*5*	*1·09*	—	*28·9*	—	*26*	—	*Castlebay.*
	a Wick	64	30, 31, 3, 4	49	4th	63·0	53·6	58·0	+ 3·6	112	0	5	0·30	− 0·35	*	*	*	*	*
	p Strathpeffer	76	30th	50	4th, 5th	71·7	54·2	62·4	+ 6·7	143	0	1	0·01	− 0·60	32·8	+ 4·5	29	+ 4	Strathpeffer.
	p Glencarron .. S	77	30th	49	5th	68·9	55·2	61·6	+ 7·8	137	0	4	0·49	− 0·95	*	*	*	*	*
b, Mainland.	p Fort Augustus S	79	30th	54	4th	71·0	56·8	63·5	+ 7·6	151	0	5	0·45	− 0·30	31·1	+ 9·5	28	+ 8	Fort Augustus.
	p Fort William S	79	30th	51	5th	69·3	56·2	62·5	+ 6·1	144	0	6	1·15	− 0·15	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	77	30, 31, 1st	50	4th	73·8	55·4	64·1	+ 7·6	155	0	2	0·06	− 0·74	50·2	—	45	—	*Gordon Castle.*
	a Nairn	79	30th	50	4th	74·0	54·7	63·8	+ 7·4	153	0	1	0·02	− 0·54	41·4	—	37	—	Nairn.
	a Aberdeen	73	31st	50	4th	69·9	54·3	61·6	+ 5·4	137	0	5	0·40	− 0·24	65·4	+29·9	58	+27	Aberdeen.
	a Balmoral .. S	81	2nd	43	4th	71·9	51·1	60·9	+ 7·2	132	0	2	0·18	− 0·55	62·5	—	56	—	Crathes S.
	p Crieff .. .. S	76	30th	46	4th	69·3	54·3	61·4	+ 3·3	136	0	5	0·74	− 0·07	46·7	—	42	—	Balruddery.
	a Leith	78	30th, 31st	49	4th	73·4	56·1	64·2	+ 6·0	155	0	3	0·20	− 0·43	*	*	*	*	*
	p West Linton .. S	73	31st	42	4th	68·1	52·4	59·8	+ 4·7	125	0	4	0·57	—	*48·9*	—	*44*	—	*West Linton.*
	p Marchmont .. S	78	30th	48	4th	72·6	53·9	62·7	+ 6·6	145	0	4	0·99	+ 0·22	54·0	+18·0	49	+16	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	80	30th	52	1st, 4th	73·7	54·0	63·3	+ 6·3	149	0	3	0·64	− 0·01	58·8	—	53	—	Cockle Park.
	a Shields	78	30th	55	2, 3, 4th	72·6	56·0	63·8	+ 6·1	153	0	4	0·55	− 0·05	*43·6*	+*12·0*	*40*	+*11*	*Newcastle.*
	p Durham	77	30, 31, 1st	52	4th	73·4	55·2	63·8	+ 5·6	153	0	3	0·69	+ 0·07	54·4	+18·5	50	+17	Durham.
	p Rounton .. M	79	31st, 1st	52	1st	75·3	56·0	65·1	+ 7·5	162	0	3	0·66	+ 0·01	*	*	*	*	*
	p Scarborough .. M	78	30th	57	4th	73·3	58·6	65·5	+ 7·0	165	0	4	0·76	+ 0·18	58·5	—	54	—	Scarborough.
	p York	82	31st	54	2nd, 4th	77·4	58·0	67·1	+ 7·7	176	0	4	0·55	− 0·03	42·9	+ 5·4	39	+ 5	York.
b, South.	a Spurn Head	77	30th	53	4th	73·3	59·9	66·2	+ 6·8	169	0	3	0·19	− 0·24	*	*	*	*	*
	a Lincoln	83	1st	54	31st, 2nd	78·7	58·0	67·7	+ 7·6	180	0	4	0·27	− 0·26	65·6	—	61	—	Skegness.
	a Fulbeck	82	31st	55	2nd	77·8	58·4	67·5	+ 7·4	179	0	5	0·35	− 0·19	55·4	—	51	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	87	1st	56	2nd, 4th	78·9	58·6	68·1	+ 7·9	183	0	5	0·14	—	*71·2*	—	*66*	—	*Lowestoft.*
	p Hillington .. M	87	1st	52	4th	81·1	55·9	67·7	+ 7·5	180	0	5	0·24	− 0·41	62·8	—	58	—	Cromer.
	a Yarmouth	78	30th	58	4th	74·4	61·0	67·3	+ 6·9	177	0	2	0·33	− 0·21	64·7	+21·1	60	+19	Hillington.
	a Norwich														66·2	—	61	—	Yarmouth.
	p Geldeston	85	1st	53	1st	80·4	58·4	68·7	+ 8·8	187	0	1	0·05	− 0·46	*	*	*	*	*
	p Cambridge	88	30th	52	2nd	80·6	56·3	67·7	+ 6·7	180	0	2	0·02	− 0·51	63·6	+17·0	59	+16	Geldeston.
b, South.	a *Felixstowe*	*75*	*1, 3, 5th*	*59*	*4th*	*74·1*	*61·6*	*67·5*	+ *6·2*	*179*	*0*	*1*	*0·12*	− *0·27*	61·8	+16·2	58	+15	Cambridge.
	a Clacton-on-Sea ..	77	30th, 4th	58	4th	74·7	61·7	67·8	+ 6·5	181	0	2	0·14	—	*72·8*	—	*68*	—	*Felixstowe.*
	a Rothamsted ..	80	1st	51	2nd	75·7	55·3	64·9	+ 5·0	160	0	4	0·10	− 0·46	71·7	—	67	—	Clacton.
	a *Shoeburyness* ..	*83*	*1st*	*56*	*1st*	*77·0*	*60·0*	*68·0*	+ *5·3*	*182*	*0*	*0*	*0·00*	—	56·0	+ 8·3	52	+ 8	Rothamsted.
	p Tottenham	83	1st	57	31st	77·8	59·9	68·3	+ 6·1	184	0	1	0·02	—	*65·7*	—	*61*	—	*Southend.*
															56·0	—	52	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	78	30, 31, 1st	53	31, 1, 2nd	74·8	55·6	64·6	+ 7·0	158	0	3	0·63	+ 0·05	45·8	—	42	—	Harrogate.
	a Bawtry	83	30th, 1st	52	31, 1, 4th	79·9	55·6	67·0	+ 7·3	175	0	5	0·22	− 0·32	45·9	+10·2	43	+ 9	Worksop.
	p *Buxton* .. M	*76*	*30th*	*50*	*1st*	*71·7*	*54·6*	*62·6*	+ *5·9*	*144*	*0*	*4*	*0·48*	− *0·48*	*46·1*	—	*43*	—	*Buxton.*
	a Nottingham ..	83	31st	52	31st	77·9	56·3	66·5	+ 6·4	172	0	5	0·29	− 0·25	49·0	—	45	—	Nottingham.
	p Birmingham, Edgbsn	79	31st	53	4th	75·4	57·6	66·0	+ 6·8	168	0	5	0·19	− 0·36	48·8	—	45	—	Birmingham.
	a Raunds .. M	84	1st	52	31st, 2nd	79·5	55·8	66·9	+ 6·0	174	0	2	0·47	—	*	*	*	*	*
	a Oxford	80	31st	55	31st, 2nd	76·3	58·7	67·0	+ 5·8	175	0	3	0·40	− 0·13	52·4	+ 8·0	49	+ 8	Oxford.
b, West.	a Cheadle .. M	78	1st	52	4th	73·9	56·4	64·6	+ 6·9	158	0	5	0·48	− 0·22	55·3	—	51	—	Sheffield.
	p Shrewsbury	78	30th	52	2nd	75·3	57·0	65·6	+ 6·4	165	0	4	0·22	—	*	*	*	*	*
	a Hereford .. M	75	31st	52	2nd	72·7	56·2	64·0	+ 4·0	154	0	6	0·81	+ 0·28	*	*	*	*	*
	a Cirencester	79	31st	51	2nd	75·4	55·5	64·9	+ 6·0	160	0	4	0·53	− 0·10	58·4	+14·5	55	+14	Cirencester.
	a Bath	76	31, 1, 2nd	53	2nd	74·1	58·4	65·8	+ 5·4	167	0	3	0·64	+ 0·04	59·5	—	56	—	Bath.
															69·5	—	*65*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	81	31st, 1st	56	31st	77·7	58·6	67·6	+ 6·1	179	0	1	0·08	− 0·43	57·2	+11·6	54	+11	Kew.
	a Marlborough ..	78	31st, 1st	50	31st	76·2	55·1	65·0	+ 5·6	161	0	3	0·35	− 0·19	48·4	+ 6·5	45	+ 6	Marlborough.
	a Margate	85	1st	57	4th	79·4	60·5	69·4	+ 7·4	192	0	1	0·09	− 0·36	64·7	+18·4	61	+17	Margate.
	a Wisley, Surrey ..	81	31st, 1st	53	31st	77·2	56·7	66·3	+ 4·4	170	0	1	0·04	—	61·2	—	57	—	Wisley.
	a Swarraton .. M	78	1st	49	31st	74·5	55·4	64·4	+ 5·0	157	0	3	0·08	− 0·49	61·5	—	58	—	Worthing.
	a Tunbridge Wells M	82	1st	54	3rd, 4th	76·4	55·8	65·5	+ 5·2	165	0	1	0·06	− 0·44	66·2	+19·8	62	+19	Tunbridge Wells.
	a Dungeness	75	31st, 1st	57	2nd	71·7	60·0	65·5	+ 4·4	165	0	1	0·05	− 0·37	68·4	—	65	—	Littlestone.
	p Hastings	77	1st	57	4th	72·9	59·3	65·7	+ 4·4	166	0	1	0·05	− 0·48	*69·7*	+*17·4*	*66*	+*16*	*Hastings.*
	p Southampton ..	77	31st, 1st	57	4th	73·7	60·0	66·4	+ 3·9	171	0	3	0·10	− 0·46	58·5	+ 9·1	55	+ 9	Southampton.
	a Ventnor	75	31st, 1st	59	31st	71·7	60·7	65·9	+ 3·6	167	0	3	0·19	− 0·28	55·8	+ 7·4	53	+ 7	Ventnor.
															67·4	+15·9	64	+15	Eastbourne.
LONDON	a *Westminster* ..	*81*	*1st*	*57*	*4th*	*76·9*	*59·9*	*67·9*	+ *6·1*	*181*	*0*	*2*	*0·04*	− *0·48*	*55·9*	+*15·7*	*52*	+*15*	*Westminster.*
	a *Greenwich*	*86*	*1st*	*54*	*31st*	*81·3*	*57·0*	*68·4*	+ *5·3*	*185*	*0*	*1*	*0·06*	− *0·46*	*62·7*	+*10·5*	*59*	+*10*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	72	31st	50	4th	68·0	56·4	61·9	+ 4·6	139	0	6	0·75	− 0·24	*	*	*	*	*
	p Glasgow	75	31st	51	4th	69·2	56·8	62·6	+ 5·7	144	0	6	0·87	+ 0·06	35·3	+ 4·3	32	+ 4	Glasgow.
	p Rothesay .. S	75	31st	49	4th	69·0	55·4	61·8	+ 4·6	139	0	7	1·04	+ 0·03	*	*	*	*	*
	a Kilmarnock	74	31st	47	4th	69·4	55·9	62·3	+ 4·9	142	0	5	0·68	—	*41·2*	—	*37*	—	*Kilmarnock.*
	a Colmonell .. S	72	31st	47	4th	69·1	56·1	62·2	+ 5·0	141	0	5	0·59	− 0·24	*	*	*	*	*
	p Dumfries .. S	73	31st	52	4th	69·4	57·0	62·8	+ 4·6	146	0	5	1·05	+ 0·25	*43·9*	—	*40*	—	*Dumfries.*
	p Cally, Gatehouse S	73	31st	52	4th	68·8	56·7	62·4	+ 5·4	143	0	5	0·64	− 0·32	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	66	30th	54	4th	64·4	56·2	60·1	+ 3·1	127	0	6	0·81	− 0·01	53·4	+11·3	49	+10	Douglas.
															47·7	—	44	—	Hoylake.
7. a, ENGLAND, N.W. ..	p Aspatria	76	30th, 31st	55	4th	71·3	57·5	64·0	+ 7·3	154	0	4	0·77	− 0·16	47·4	—	43	—	Aspatria.
	p Newton Rigg ..	74	30th	52	4th	69·7	55·3	62·1	+ 5·6	141	0	6	1·64	+ 0·91	45·2	+ 7·9	41	+ 7	Newton Rigg.
	p Stonyhurst	76	31st, 1st	57	31, 2, 4, 5	71·8	58·4	64·7	+ 6·8	159	0	5	1·41	+ 0·41	36·8	− 0·5	34	0	Stonyhurst.
	p Blackpool .. M	78	31st	56	31st	72·4	58·5	65·0	+ 6·1	161	0	7	2·09	+ 1·36	52·7	+13·0	48	+12	Blackpool.
	p M'nch'ster, Prestwich	80	1st	53	2nd	74·8	57·6	65·7	+ 7·2	166	0	4	0·44	− 0·36	*38·3*	+ *4·3*	*35*	+ *4*	*Prestwich.*
	a Liverpool (Bidston)	78	30th, 31st	57	2nd	73·7	59·4	66·1	+ 6·9	169	0	4	1·71	+ 1·07	*52·3*	—	*48*	—	*Liverpool.*
	a Hawarden Bridge ..	79	2nd	55	31st	74·4	58·6	66·0	+ 5·9	168	0	3	0·80	+ 0·23	*51·3*	+ *9·0*	*47*	+ *9*	*Southport.*
															54·9	—	*51*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	77	30th	57	3rd	72·6	59·4	65·6	+ 6·1	165	0	4	1·81	+ 1·24	50·3	+10·4	47	+10	Llandudno.
	a Holyhead	71	31st	55	4th	67·6	58·6	62·8	+ 4·6	146	0	5	1·60	+ 0·97	45·9	—	42	—	Aberdovey.
	p Bettws-y-Coed ..	75	30th	55	31st, 4th	70·9	57·0	63·5	+ 4·6	151	0	7	2·97	—	41·5	—	38	—	Bettws-y-Coed.
															50·1	—	46	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	74	30th	50	2nd	69·7	56·0	62·4	+ 4·3	143	0	7	1·76	—	39·5	—	37	—	Llangammarch Wells.
	a Pembroke	67	31st, 3rd	47	31st	65·6	52·6	58·7	+ 0·2	117	0	6	1·78	+ 1·18	45·3	+ 0·3	42	0	Pembroke.
	p Cardiff	75	2nd	54	2nd	72·1	58·3	64·8	+ 4·2	160	0	7	1·10	+ 0·25	*53·9*	—	*50*	—	*Cardiff.*
															48·8	+ *3·1*	*46*	+ *3*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	77	31st	50	31st	74·0	59·2	66·2	+ 4·6	169	0	3	0·34	− 0·36	*58·2*	—	*54*	—	*Clifton.*
	a Shaftesbury .. M	73	31st	53	4th	71·2	57·0	63·7	+ 4·2	152	0	3	0·16	− 0·47	*	*	*	*	*
	a Arlington	73	31st, 2nd	55	4th	70·3	57·7	63·6	+ 5·5	151	0	6	1·24	+ 0·24	52·5	+ 4·8	50	+ 5	Newquay.
	a Cullompton .. M	76	2nd, 4th	49	2nd	73·6	57·5	65·1	+ 5·0	162	0	7	1·90	+ 1·23	41·1	− 0·6	39	− 1	Cullompton.
	a Portland Bill ..	69	31st, 4th	60	2, 3, 4, 5	67·9	60·7	64·1	+ 3·6	155	0	2	0·04	—	*51·6*	—	*49*	—	*Weymouth.*
	p Plymouth	72	30th	59	4th	69·6	61·5	65·3	+ 4·3	163	0	7	1·70	+ 1·06	58·5	+12·2	55	+12	Plymouth.
	p Falmouth	72	2nd	57	5th	69·5	59·6	64·3	+ 4·1	156	0	6	1·85	+ 1·15	52·3	+ 1·9	49	+ 2	Falmouth.
															58·7	—	*55*	—	*Salcombe.*
															54·5	+ *5·8*	*51*	+ *5*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	73	1st	52	3rd, 4th	66·7	54·7	60·3	+ 3·9	128	0	6	0·37	− 0·36	*	*	*	*	*
	a Blacksod Point ..	70	31st	54	3rd, 5th	65·6	56·0	60·5	+ 2·9	130	0	4	1·03	+ 0·16	*	*	*	*	*
	p Markree Castle ..	72	31st, 1st	45	4th	68·4	52·4	59·9	+ 3·2	125	0	7	1·67	+ 0·80	37·9	+ 8·9	35	+ 8	Markree Castle.
	a Birr Castle	74	31st	50	31st	69·0	54·3	61·2	+ 3·0	134	0	7	1·35	+ 0·59	*36·3*	+ *4·7*	*34*	+ *4*	*Birr Castle.*
b, East.	p Armagh	72	1st	51	4th	68·4	54·9	61·3	+ 3·9	135	0	7	1·18	+ 0·38	31·1	+ 0·5	29	0	Armagh.
	a Donaghadee	68	1st, 5th	50	4th	66·0	54·4	59·9	+ 2·2	125	0	4	0·79	+ 0·07	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City	73	30th	55	4th	70·7	58·1	64·0	+ 4·1	154	0	6	0·44	− 0·22	38·4	+ 0·9	36	+ 1	Phœnix Park.
	a Kilkenny	71	31st, 1st	48	4th	68·6	56·6	62·2	+ 3·7	141	0	7	1·76	+ 1·07	*	*	*	*	*
	a Waterford	69	30th, 31st	50	4th	67·3	56·9	61·8	+ 2·5	139	0	7	2·56	+ 1·76	*	*	*	*	*
	a Birr Castle	74	31st	50	31st	69·0	54·3	61·2	+ 3·0	134	0	7	1·35	+ 0·59	36·3	+ 4·7	34	+ 4	Birr Castle.
b, West.	a Foynes	73	31st	54	2nd, 4th	67·9	55·7	61·4	+ 2·7	136	0	6	0·94	+ 0·14	*	*	*	*	*
	a Cahir .. .. M	72	3rd	49	4th	69·6	55·0	61·9	+ 3·1	139	0	7	1·15	—	*	*	*	*	*
	a Killarney	75	31st	55	4th	68·5	56·9	62·4	+ 3·9	143	0	7	1·73	+ 0·85	*	*	*	*	*
	a Valencia	70	31st	54	30th	66·4	56·9	61·4	+ 2·8	136	0	7	2·31	+ 1·31	35·6	+ 1·2	33	+ 1	Valencia.
	a Roche's Point ..	67	30, 31, 1st	55	4th	65·4	59·0	62·0	+ 2·9	140	0	7	2·00	+ 1·25	43·4	—	41	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	69	1st	58	30th, 4th	67·6	59·1	63·1	+ 2·4	148	0	6	1·52	+ 0·98	51·5	+ 1·1	49	+ 1	Scilly.
	a Jersey, St. Aubins ..	76	31st	57	5th	72·9	61·3	66·8	+ 4·2	174	0	3	0·32	− 0·20	57·7	+ 2·2	55	+ 2	St. Helliers.
	a Guernsey	75	31st	58	31st	72·1	60·5	66·0	+ 4·6	168	0	3	0·15	+ 0·39	56·1	− 1·6	54	− 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 68·3 hrs.* (+*16·4 hrs.*), *64* % (+*15* %); *Bournemouth, 60·1 hrs., 57* %; *Bognor,* *hrs.,* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	58·5	—
	— —				
	— —				
1.	Aberdeen	—	—	—	55·5
	Crathes	0	38	62·2	56·4
	Balmoral	0	40	—	—
	West Linton	—	—	—	—
	Marchmont	0	44	62·7	—
2.	Cockle Park	0	48	64·9	59·0
	Durham	0	48	—	—
	York	—	—	63·8	58·8
	Hull	0	49	65·7	57·3
	Lincoln	—	—	66·9	59·4
	Ranceby	0	47	69·3	61·6
3.	Norwich	—	—	—	—
	Yarmouth	—	—	71·9	65·0
	Lowestoft	0	53	68·9	61·7
	Cambridge	0	42	69·4	63·2
	Clacton-on-Sea	0	47	67·4	61·6
	Southend	0	55	72·9	—
	Tottenham	0	52	—	65·4
4.	Harrogate	0	44	61·1	58·6
	Huddersfield	0	50	68·7	59·0
	Buxton	0	42	63·5	56·2
	Sheffield	0	47	64·7	57·5
	Nottingham	0	47	68·7	61·8
	Birmingham	0	44	63·0	56·2
	Oxford	0	—	—	—
	Hereford	0	40	—	—
	Cirencester	0	46	65·9	60·5
	Bath	—	—	69·1	63·9
5.	Margate	0	55	68·4	62·8
	Greenwich	0	44	—	—
	Westminster	0	? 52	—	—
	Kew	0	48	67·3	60·5
	Canterbury	0	51	67·6	67·7
	Tunbridge Wells	0	50	68·7	—
	Wisley	0	46	69·1	63·8
	Worthing	0	51	68·6	63·0
	Portsmouth	0	53	71·3	65·5
6.	Glasgow	0	41	—	—
	Rothesay	—	—	—	56·0
	Colmonell	0	45	—	—
6.	Dumfries	0	51	64·6	60·7
	Douglas	0	51	—	—
7.	Aspatria	0	48	62·6	56·2
	Newton Rigg	0	43	62·4	57·6
	Burnley	0	46	63·0	56·9
	Southport	0	49	67·5	62·9
	Manchester City	0	51	66·6	61·3
	Bettws-y-Coed	0	54	63·0	57·9
8.	Llangammarch Wells	0	37	62·3	56·1
	Cardiff	0	47	67·2	62·2
	Clifton	0	? 46	—	—
	Plymouth	0	51	69·6	—
9.	Armagh	0	46	63·2	59·0
	Markree	0	39	62·1	57·2
10.	Dublin, Trin. Coll.	0	45	64·5	60·6
11.	Guernsey, Brooklyn	0	48	67·5	63·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	55	53	53·9
	Kirkwall	59	56	58·2
	Wick	55	54	54·4
SCOTLAND E.	Cromarty	62	56	58·8
	Pennan Bay	60	55	56·4
	Aberdeen, Cove Bay	58	57	57·1
ENGLAND, N.E.	Burnmouth, Berwick	56	56	56·0
	Scarborough	66	56	60·7
ENGLAND, E.	Shipwash Lightship	67	65	66·3
	Margate‡	71	68	70·2
ENGLAND, S.E.	Eastbourne‡	68	65	67·1
SCOTLAND, W.	Lamlash	58	56	56·9
	Ballantrae	61	55	57·8
ENGLAND, N.W.	Port Erin	59	56	57·5
ENGLAND, S.W.	Newquay	64	62	62·6
	Scilly	60	58	58·8
	Plymouth‡	65	64	64·6
	Salcombe	63	58	60·6
IRELAND, N.W.	Sheephaven	59	59	59·0
	Teelin	64	60	61·4
IRELAND, S.W.	Cleggan	61	55	57·7
	Seafield	64	58	60·2
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

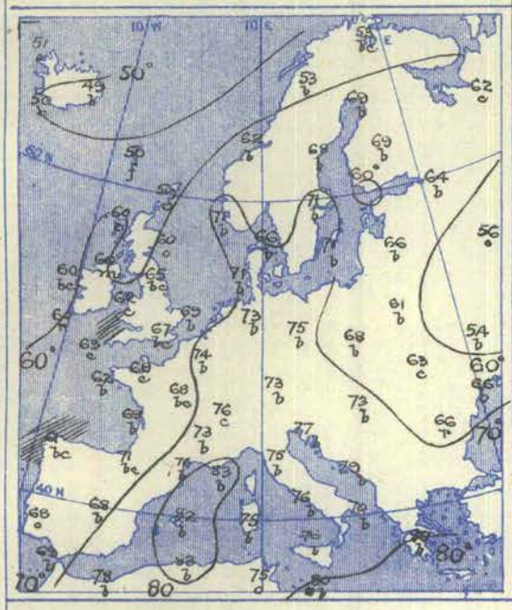
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria, 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 30th July, 1911.

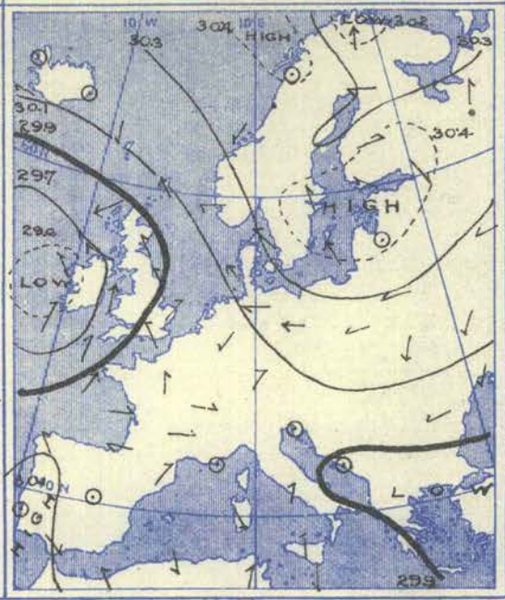
Temperature and Weather.

7 a.m.

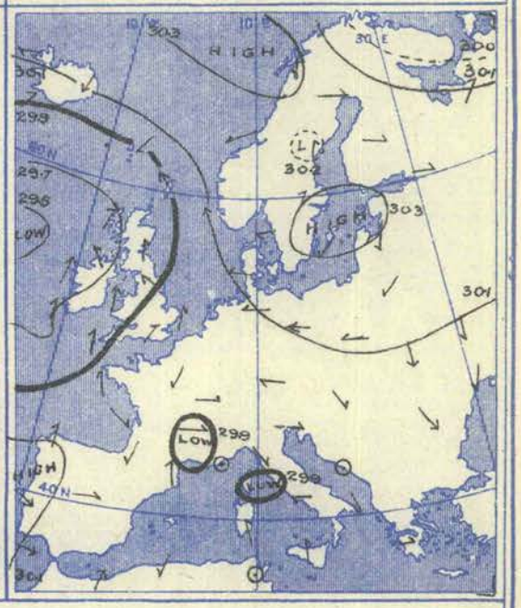


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy or showery at some of our most western and northern stations, but fair to very fine generally. Thunderstorms later in many parts of Great Britain, and about 0·5 in. of rain in the south of Ireland. A little rain falling in Brittany and a thunderstorm experienced at Nice.

Temperature continuing high very generally. Morning readings above 80° on some shores of the Mediterranean, about 70° over a very wide area on the Continent and as high as 69° at Haparanda. About 60° in the north of Scotland and 53° in the north of Scandinavia. Rising to 80° later at some English stations and to 90° or above at many places in France and central and southern Europe; 97° at Belfort and 98° at Besançon. Thermometer exceeding 100° in some parts of Algeria. Night rather cooler than those preceding in the south-east of England.

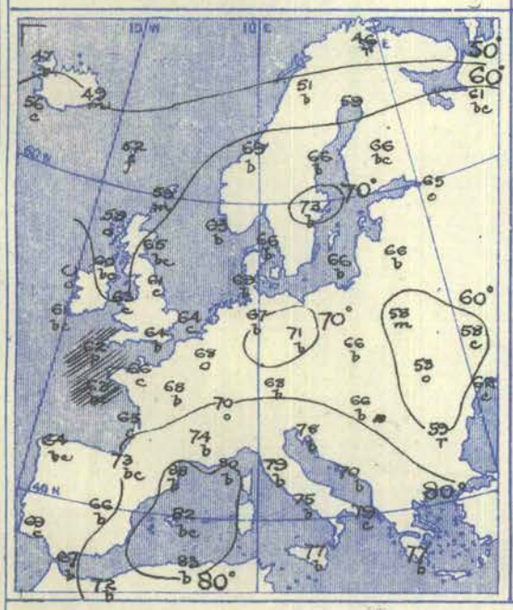
Wind in morning anticyclonic over the major portion of the Continent and very light in force; cyclonic over these Islands and their neighbourhood, light or moderate generally, but fresh at Portland and Pembroke. Light variable airs prevailing on the Mediterranean. No important change taking place during day.

Barometer in morning ranging from above 30·4 in. in a large anticyclone centred over the Gulf of Finland to below 29·6 in. in a depression of considerable size having its minimum off the west of Ireland. Pressure very uniform over France and the Peninsula. High pressure system giving way somewhat during day; western depression moving Northward, and a shallow disturbance forming over the south of France.

Monday, 31st July, 1911.

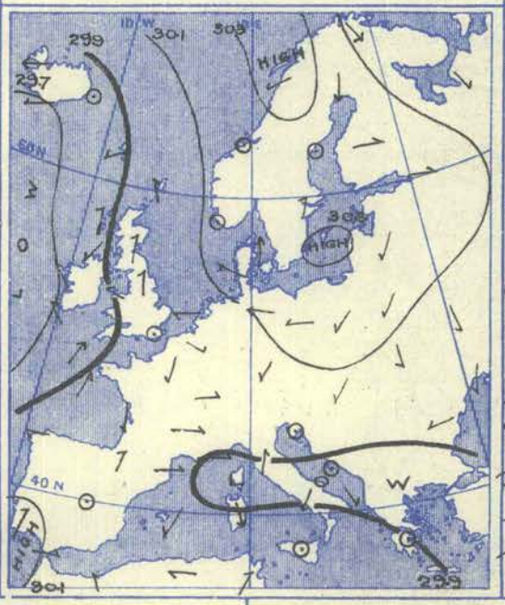
Temperature and Weather.

7 a.m.

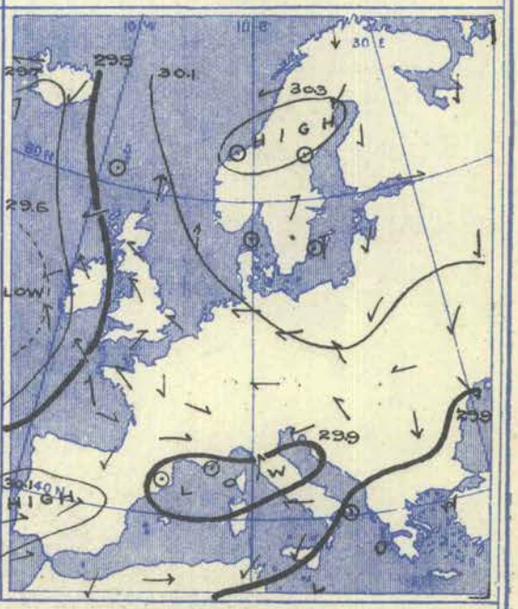


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright generally, but cloudy or overcast in the Netherlands, with a thunderstorm at the Helder, and rainy at Hermanstadt and Vardö. Slight rain experienced later at many stations in Ireland and the south-west of England, and as much as 0·7 in. at Valencia. Thunderstorms at a few French stations, and 0·5 in. of rain at Belfort. As much as 0·8 in. of rain falling at Lemberg.

Temperature showing no general change, fallen somewhat in some localities, risen in Scotland. Readings in morning above 60° over almost the whole of the United Kingdom, 70° or above over a large area on the Continent, and above 80° at some Mediterranean stations; 88° at Barcelona. Thermometer marking 94° at Biskra, central Algeria. Maxima during day again about 80° in various parts of this country and some degrees higher over the greater portion of the Continent; above 90° in some parts of France, Italy, and the Spanish Peninsula, and as high as 110° at Tunis.

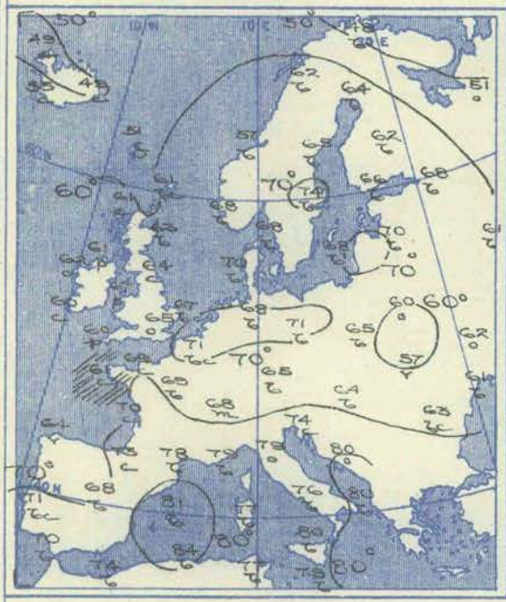
Wind in morning mainly Southerly to South-Easterly, cyclonic, over these Islands, but of little force; light, anticyclonic over most of the Continent, but strong from north-west at Vardö. Light from various points on the Mediterranean. Southerly and South-Easterly current increasing in force in Ireland and on the Irish Sea and St. George's Channel later, and a strong breeze from south-west springing up at Turin.

Barometer in morning above 30·3 in. in the north-west of Norway and also over the upper part of the Baltic; below 29·2 in. in a deep depression having its minimum on the Atlantic far to the westward of Ireland, and relatively low in a band extending from the Gulf of Lion to Asia Minor. Atlantic depression approaching nearer to these Islands during day, but little modification occurring in the general distribution of pressure over our area.

Tuesday, 1st August, 1911.

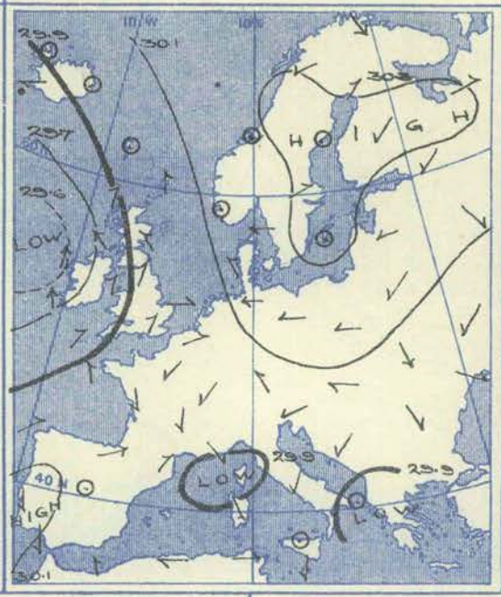
Temperature and Weather.

7 a.m.

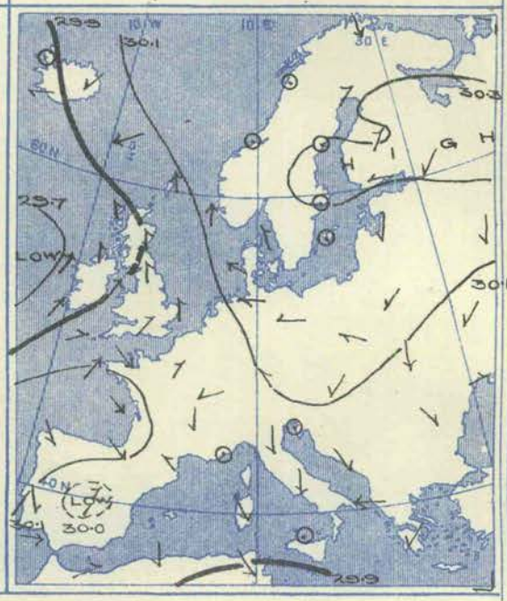


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy in nearly all parts of these Islands, with showers at Holyhead, Malin Head, and Scilly. Generally fine and bright on the Continent, but rainy at Pesaro and also at Lemberg. Thunderstorms later in a few parts of the United Kingdom and slight falls of rain in most places. Some rain and thunderstorms in the north-east of France, rain in Hungary, and as much as 2·5 in. accompanied by thunder and lightning, at Kieff.

Temperature changed little and irregularly. Morning readings 92° at Biskra, 85° at Barcelona, and about 80° at several other Mediterranean stations; above 70° over most of France, Germany, and in the neighbourhood of Stockholm, and above 65° in the greater part of England. Below 50° in the extreme north of Norway. Rising to 83° during day in London. 85° at Margate, to 86° at Stockholm, to between 80° and 90° in Germany, and to above 90° in many parts of France and Spain. Thermometer touching 97° at Lyons and 98° at Perpignan.

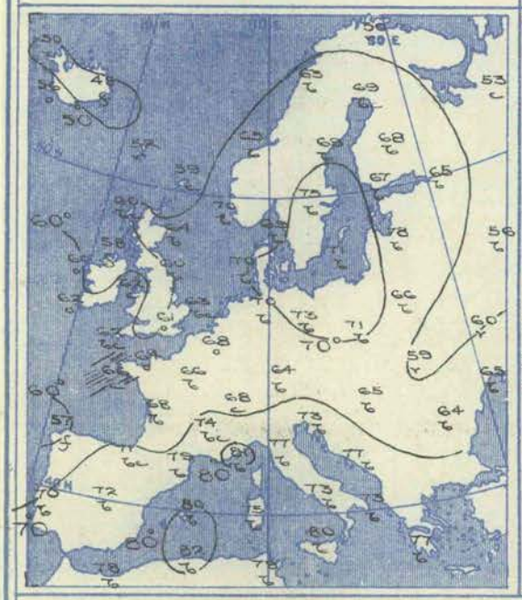
Wind in morning cyclonic over this country, and also over the Mediterranean; light or moderate generally, but Southerly current blowing a fresh breeze on the coast of Wales. Light anticyclonic airs prevailing over the major portion of the Continent, but a high wind from the North-Westward blowing at Vienna. Not much change during day, but veering towards South-West in the south-west and south of these Islands.

Barometer in morning ranging from above 30·3 in. in a high pressure system covering northern Europe to below 29·9 in. in a depression of little intensity centred over Corsica, and to below 29·3 in. in a deeper disturbance on the Atlantic some distance to the westward of Ireland. No great change occurring in the general distribution later in day; some shallow irregularities appearing over England, and the southern depression spreading in a northerly direction. Barometer rising over northern Spain and the Bay of Biscay.

Wednesday, 2nd August, 1911.

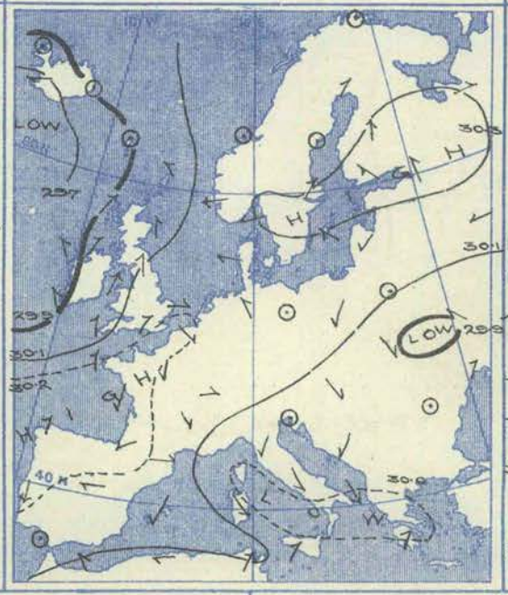
Temperature and Weather.

7 a.m.

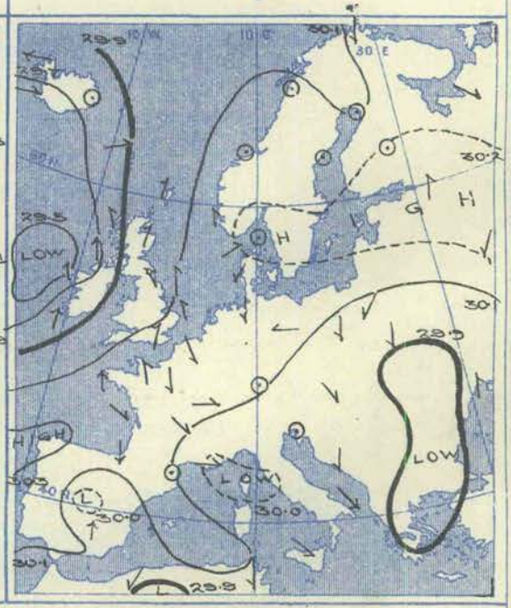


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over the major portion of our area, but showery at Malin Head and rainy in Little Russia and at Lemberg as well as at Vardö, and foggy at Corunna. Heavy rain later at Valencia, and smaller amounts over a large portion of the United Kingdom Rain experienced in some parts of Hungary, Italy, the south of Switzerland, and at Kharkoff.

Temperature fallen a little at most of our own and the French stations, risen in the north of the Continent. Morning readings ranging from 90° at Barcelona and above 80° at some other stations on the shores of the Mediterranean to about 60° in the north of Scotland and in several Irish localities, and to 50° at the North Cape. Maxima during day above 90° in various parts of France, Italy, and the Spanish Peninsula; 96° at Perpignan and 100° at Cette and Croisette. Thermometer remaining below 80° in nearly all parts of these Islands, but touching 81° at Haparanda and 88° at Stockholm.

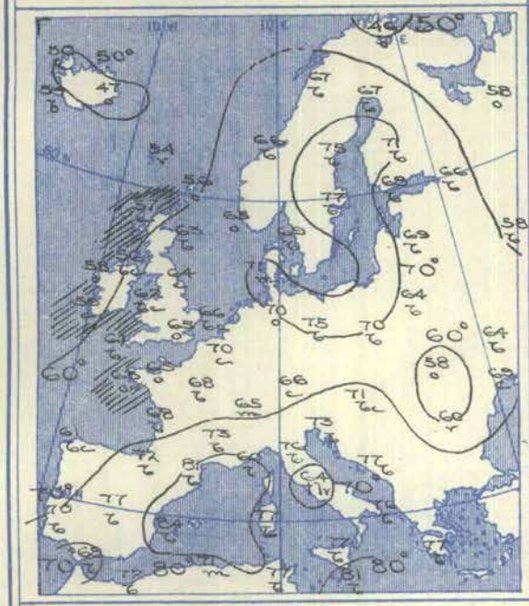
Wind in morning light or moderate from between South-West and South over these Islands. Two distinct cyclonic circulations existing, one over the eastern regions of the Continent, and the other far out on the Atlantic. Light, variable anticyclonic airs prevailing at most places in northern Europe, but a strong wind from East prevalent at Skudesnaes. Southerly wind increasing in force very generally in the west and north-west of these Islands, and attaining the strength of a gale on the north-west coast of Ireland.

Barometer in morning above 30·3 in. in a high pressure of irregular form covering Finland and much of the surrounding region. Below 29·9 in. in a depression to the south-eastward of Kieff, and relatively low in a band extending from Corsica to Greece. Below 29·6 in. in a large disturbance to the southward of Iceland. Pressure decreasing briskly in the west of Ireland and over the adjacent part of the ocean during day, and gradient growing rather steep.

Thursday, 3rd August, 1911.

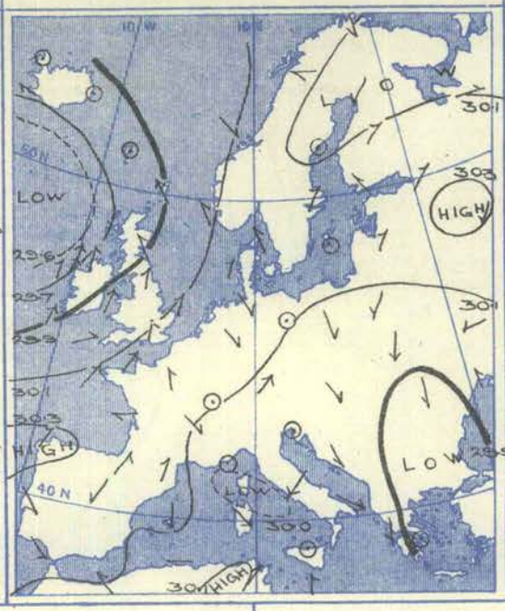
Temperature and Weather

7 a.m.

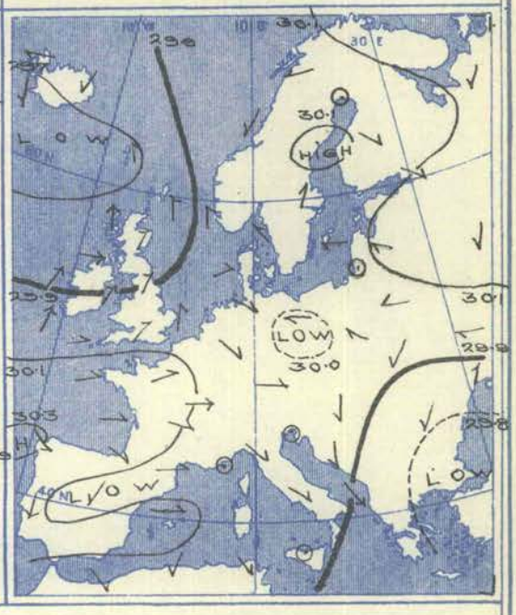


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning showery in some parts of England and in the Hebrides, rainy at Hermanstadt, and a thunderstorm prevailing at Rome. Fair to very bright over our area generally, but cloudy in several localities in these Islands. Rain falling in Norway later and also in a few other regions on the Continent, and in various parts of the United Kingdom.

Temperature risen in northern Europe. Morning readings ranging from 88° at Barcelona, about 80° at some other southern stations, 77° at Stockholm, and 71° in Kuopio to below 60° in the extreme north and west of these Islands, and to 46° at Vardö. Maxima during day below 75° in most parts of the United Kingdom, above 85° in several parts of central Europe, and above 90° in various localities in Italy, the south of France, and in Spain and Algeria. Thermometer above 80° in Sweden and as high as 79° at Skagen.

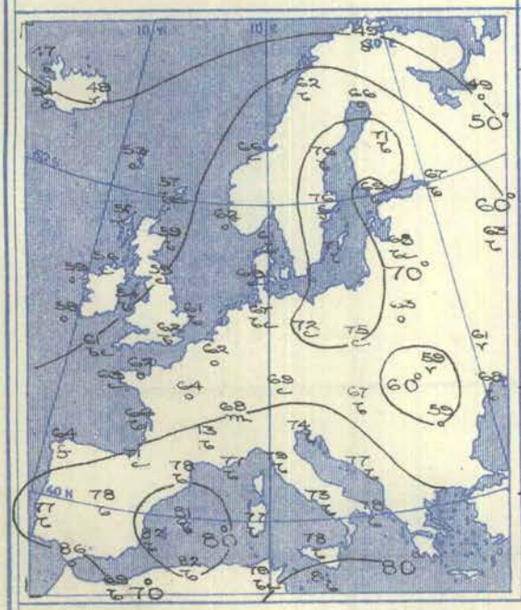
Wind in morning Southerly in these Islands; high at Malin Head and fresh in some other western localities, but light or moderate as a rule. Anticyclonic and of little force over the northern half of the Continent and also in the south-west of our area, but cyclonic over the Mediterranean and Italy; a strong breeze from North-East prevailing at Rome. Veering towards West during day over Ireland and England, but no great change occurring elsewhere.

Barometer in morning above 30·3 in. in a high pressure system centred over Russia, and also in an elongated area stretching from the Azores to Spain; below 29·9 in. in a depression over south-eastern Europe, nearly as low in another disturbance over Corsica and its vicinity, and below 29·6 in. in a large depression on the Atlantic to the north-westward of Ireland. Little modification taking place in the general distributing of pressure later in day. Atlantic depression moving somewhat in a northerly direction.

Friday, 4th August, 1911.

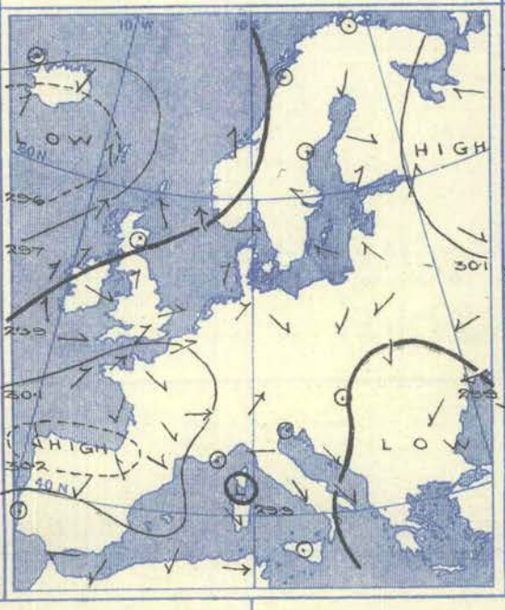
Temperature and Weather.

7 a.m.

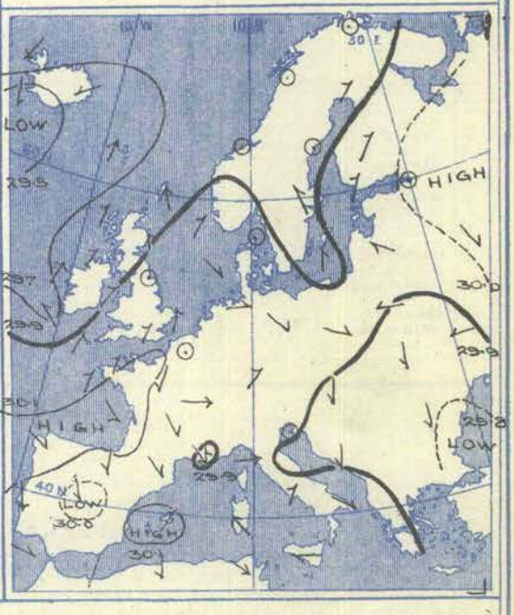


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine in most parts of our area, but cloudy in many parts of these Islands and rainy at Stornoway. Rain also falling at Faerder, Limoges, Lemberg and Kieff, and fog prevailing at Corunna. Rain falling during day in all the western parts of the British Islands and also in isolated parts of the Continent; measurements of between ¾ in. and 1¼ in. in the Scilly Islands and Wales; remaining fine in the south and east of England.

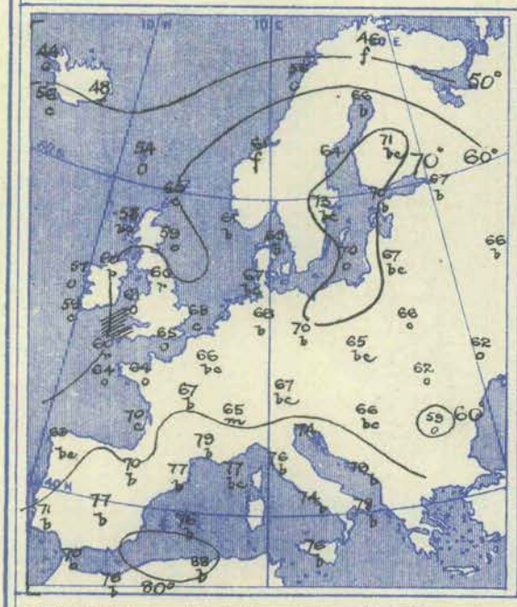
Temperature fallen somewhat in these Islands and the south of Scandinavia, and also in Belgium and the north of France. Morning readings above 70° at many places in the central and northern regions of the Continent, but below 50° at Vardö and Archangel; about 60° over a considerable portion of this country; above 80° at several stations on the shores of the Mediterranean. Rising during day to 75° or a little above over southern, central and eastern England and to between 85° and 95° over the southern parts of the Continent.

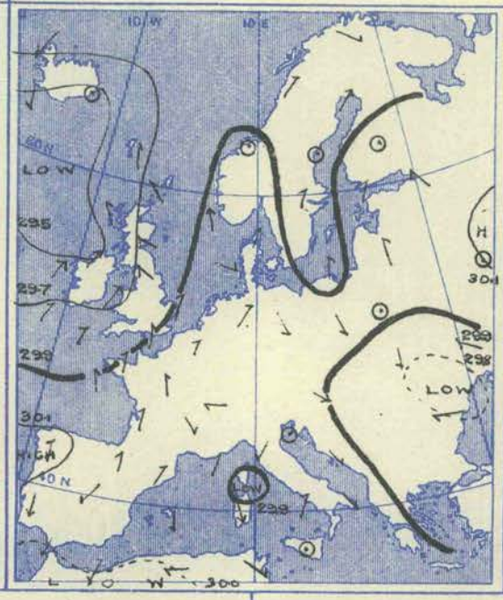
Wind in morning showing light anticyclonic movements both in the south-west and north-east of our area, and variable or cyclonic breezes of little strength elsewhere. Between west and south-west over the United Kingdom and Northerly to Easterly in Iceland. Wind backing to South-East later at some of the Irish stations, little other change.

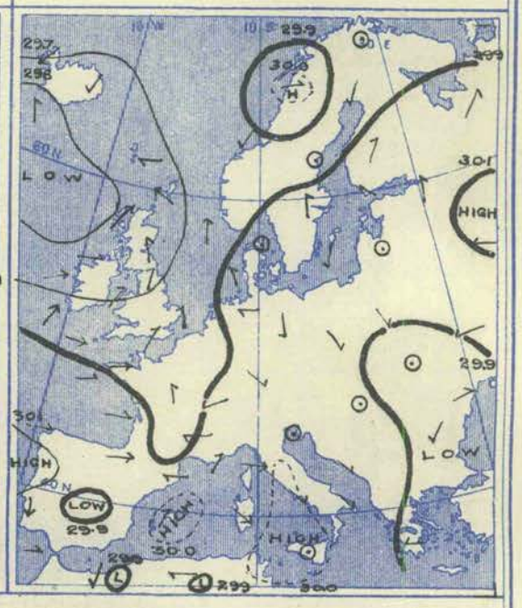
Barometer in morning ranging from above 30·2 in. in an anticyclone centred over the north of Spain and above 30·1 in. in the north of Russia to below 29·6 in. in a large depression on the ocean to the Southward of Iceland. Relatively low over a large area in the south-east of Europe. Barometer falling during day over the British Islands generally and a "V" shaped disturbance approaching the west of Ireland. Depression also forming over central Spain.

Saturday, 5th August, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning cloudy or dull over the British Islands as a whole with rain at several western and northern stations and a thunderstorm at Pembroke; fair or fine over the Continent generally, but with a good deal of mist and fog locally, and cloudy or dull at some of the Austrian stations, with rain at Prague. Rain falling during day in nearly all parts of Great Britain and Ireland and in various parts of the Continent, but amounts not large except at some of our own western and northern stations, where the measurements were from ½ in. to 1·4 in.

Temperature risen in Great Britain and France, fallen over Sweden and central Europe, changed irregularly elsewhere. Morning readings below 50° at several parts of Iceland and northern Europe, below 60° at several of our own western and northern stations, but above 60° over England and the Continent generally, as high as 73° at Stockholm and above 75° at several places in southern Europe. Rising during day to between 70° and 75° over England generally to between 80° and 90° on the Continent as a whole and to 95° at San Fernando and to 97° at Cette and Croisette.

Wind in morning chiefly from some Southerly point over the British Islands and the western countries of the Continent, light or moderate in force as a rule but strong at Pembroke. Light and variable over Europe generally. Wind veering to the Westward during day over our western districts, but little other change.

Barometer in morning highest above 30·1 in. between Spain and the Azores and above 30 in. over Germany and central Russia; lowest 29·5 in. and less in a depression between Iceland and our north-west coasts and between 29·8 in. and 29·9 in. in shallow disturbances over southern Russia and Corsica. Barometer rising in Ireland, but falling over Great Britain during day and main depression moving north-eastwards. Little change in the general distribution of pressure but shallow depression forming over central Spain.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height. Metres.	Remarks.
	1911.											
1	July 30th, 10.0 a.m. to 12.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	293·8° 83% 230°, 4·5	290·7° ? % ? °, 13	289° ? % 230°, 17	286·3° ? % 230°, 17	282·5° ? % 230°, 18				Clear sky. Very steady wind at all altitudes. Humidity trace unreliable.
2	August 1st, 11h. 10m. a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	160°, 5		190°, 8·5	205°, 8·5	190°, 16				Two theodolites. ci and a good deal of cu. Balloon lost in cu. at 1,500 m.
3	August 3rd, 10.0 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature .. Humidity .. Wind	291° 88% 210°, 5·4	289° 88% 220°, 11	287° 88% 220°, 11	285·7° 58% 180°, 15					Overcast, alt. st. Little scud at 275 m. above sea.
4	August 5th, 10.0 a.m. to noon.	Brighton, 115 m.	Temperature Humidity .. Wind	291·8° 80% 170°, 5·4	290·°2 80% 200°, 12·5	289° 90% 210°, 20	285°, 2 85% 210°, 24·6				283·5° 80% 210°, 24·6 } 1,300	Overcast, alt. st. No clouds reached. V. steady wind at all altitudes.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites	1	—	1	1
Area of Surface (sq. metres) ..	7	—	7	5
Capacity of Balloon (cub. metres) ..	—	·041	—	—
Length of Wire (metres)	2,000	—	1,500	1,500

South Kensington, London, S.W. *August 9th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 32. THIRTY-SECOND WEEK, SUNDAY, AUGUST 6TH, TO SATURDAY, AUGUST 12TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the United Kingdom generally the conditions were very bright and dry, but slight rain fell occasionally in many parts of Ireland and Scotland. Thunderstorms occurred in several parts of Scotland and the north-east of England on Wednesday, and in various other localities on Thursday or Friday; on Saturday local thunderstorms were experienced in the south of England and in Ireland.

Temperature was much above the average in England, the difference amounting to 8° or more in the Midland Counties and England South-East, and to more than 9° in England East. In Scotland the excess was between 4° and 5°, and in Ireland about 3°. In most districts the hottest day was Wednesday, when the thermometer rose to above 95° in many English localities. At stations, supplying values which are used in the compilation of the tables on page 258, the highest readings reported were 98° in the Midland Counties, (at Raunds), 97° in England East (at Hillington) and 96° in England South-East and North-East (at Marlborough, Fulbeck and Lincoln). In addition to these a reading of 98° was recorded at Epsom and Canterbury, and a reading of 100° at Greenwich Observatory, where the temperature was the highest registered since precise observations commenced in 1841. In many other parts of England Wednesday was the hottest day on record, and in most districts the mean temperature for the week was higher than any previously recorded for the corresponding week of the year. The lowest of the minima were recorded on various dates, but mainly on the 6th, and ranged from 41° in Scotland North, 42° in Scotland East, and 43° in Ireland North to 51° in England East, and to 57° in the English Channel. On several nights the minimum readings were above 60° over a considerable portion of England. The lowest grass readings reported were 33° at Crathes, 37° at Llangammarch Wells, and 38° at Markree Castle.

Mean Temperature of the Sea. On almost all parts of the coast the water was warmer than during the corresponding week of last year, more than 6° at Plymouth, and 5° at the Shipwash Lightship. The means for the week ranged from 68° at Margate, 67° at the Shipwash Lightship, 66° at Eastbourne to about 55·5° at Wick and Burnmouth, and to 55° at Lerwick.

Rainfall was less than the average, the fall being very trifling over nearly the whole of England and the east and west of Scotland.

Bright Sunshine exceeded the average very generally, the excess being large in most parts of England. The percentage of the possible duration ranged from 76 in England S.E., 70 in England E., and the English Channel, and 66 in England N.W. to 41 in Ireland N., and to 38 in Scotland N.

Barometer and Wind. The pressure distribution underwent a great but gradual change, during the course of the week. During the earlier half of the week the barometer was lowest over a large area lying to the west and north of these Islands and highest in a more or less complete band extending from the Azores to Central Europe. By Friday, however, an anticyclone covered Scotland and a large area surrounding, while the lowest pressure was found to the south of this country. The wind consequently shifted from South-West and South to East or North-East, and while it was light or moderate generally it blew a fresh breeze in some localities in the East and South of England.

THE WEEK.

For explanation of the terms "Unusual, &c., see p. 252.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Light	Light	Very light	Light	Very light	Very light	Very light	Light	Light	Light	Light	Moderate
	Sunshine ...	Very abundant	Very abundant	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Abundant	Abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 10 weeks from June 4th, 1911.	Warmth ...	4 * 2	5 * 2	7 * 2	7 * 2	7 * 2	7 * 2	5 * 2	6 * 2	7 * 2	6 * 2	6 * 1	7 * 1
	Rainfall ...	4 * 5	1 * 4	1 * 6	2 * 6	1 * 6	1 * 6	2 * 3	2 * 6	2 * 5	2 * 5	4 * 5	3 * 3
	Sunshine ...	5 * 2	5 * 3	7 * 2	7 * 2	7 * 2	7 * 2	4 * 4	7 * 3	8 * 2	5 * 3	5 * 2	7 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SECOND WEEK—August 6th to August 12th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	79	41	66·1	52·9	59·1	+ 4·3	120	+ 30	0	0	3	− 2	0·54	−0·39	42	+ 17	38	+15
Eastern																		
1. SCOTLAND, EAST	86	42	70·8	52·8	61·2	+ 5·0	134	+ 34	0	0	2	− 2	0·16	−0·55	55	+ 21	50	+19
2. ENGLAND, N.E.	96	48	74·1	57·2	65·1	+ 6·7	162	+ 47	0	0	2	− 1	0·08	−0·52	58	+ 20	54	+19
3. ENGLAND, EAST	97	51	80·9	59·3	69·4	+ 9·2	192	+ 64	0	0	1	− 2	0·03	−0·46	73	+ 30	70	+29
4. MIDLAND COUNTIES	98	50	79·9	56·2	67·4	+ 8·0	178	+ 56	0	0	1	− 2	0·09	−0·45	60	+ 21	57	+20
5. ENGLAND, S.E.	96	48	81·8	59·1	69·7	+ 8·4	194	+ 59	0	0	1	− 2	0·03	−0·43	79	+ 33	76	+32
Western																		
6. SCOTLAND, WEST	82	46	70·1	54·4	61·8	+ 5·0	139	+ 35	0	0	2	− 2	0·16	−0·84	61	+ 25	57	+23
7. ENGLAND, N.W.	90	44	74·2	56·5	64·8	+ 6·2	160	+ 44	0	0	1	− 3	0·28	−0·49	69	+ 33	66	+31
8. ENGLAND, S.W.	91	50	75·4	58·0	66·2	+ 6·6	169	+ 46	0	0	1	− 3	0·06	−0·59	63	+ 19	60	+19
9 IRELAND, NORTH	75	43	68·3	53·7	60·6	+ 3·3	130	+ 23	0	0	3	− 1	0·37	−0·52	44	+ 14	41	+13
10. IRELAND, SOUTH	76	44	69·6	54·9	61·8	+ 3·0	139	+ 20	0	0	4	0	0·43	−0·49	44	+ 9	42	+ 8
11. ENGLISH CHANNEL	85	57	74·7	61·2	67·6	+ 5·8	179	+ 41	0	0	1	− 3	0·27	−0·29	72	+ 15	70	+14

THE SEASON (Summer).—Aggregates, &c., for the Period of 10 Weeks, June 4th to August 12th, 1911.

0. SCOTLAND, NORTH	84	35	*	*	*	*	917	+ 69	0	− 2	41	− 1	7·49	−0·05	381	+69	32	+ 6
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	1054	+ 98	5	+ 4	32	− 4	4·94	−1·17	477	+ 92	40	+ 8
2. ENGLAND, N.E.	96	32	*	*	*	*	1277	+203	0	0	26	− 5	5·13	−0·01	540	+113	47	+10
3. ENGLAND, EAST	97	34	*	*	*	*	1436	+230	0	0	23	− 7	3·16	−1·78	611	+141	55	+13
4. MIDLAND COUNTIES	98	32	*	*	*	*	1385	+209	0	0	21	− 9	2·92	−2·25	546	+124	48	+11
5. ENGLAND, S.E.	96	32	*	*	*	*	1458	+193	0	0	18	−10	2·49	−2·17	668	+184	60	+17
Western																		
6. SCOTLAND, WEST	86	31	*	*	*	*	1105	+ 91	0	0	39	+ 2	6·32	−1·45	492	+ 84	42	+ 7
7. ENGLAND, N.W.	90	34	*	*	*	*	1264	+152	0	0	31	− 3	5·47	−0·87	545	+121	48	+11
8. ENGLAND, S.W.	91	30	*	*	*	*	1368	+195	0	0	22	−11	4·17	−1·92	613	+154	55	+14
9. IRELAND, NORTH	86	31	*	*	*	*	1079	+ 55	0	0	36	− 6	5·74	−1·36	423	+ 81	37	+ 7
10. IRELAND, SOUTH	88	36	*	*	*	*	1259	+125	0	0	34	− 2	6·66	−0·16	473	+ 89	42	+ 8
11. ENGLISH CHANNEL	86	46	*	*	*	*	1431	+167	0	0	22	−11	4·88	+0·03	677	+115	62	+10

THE YEAR.—Aggregates, &c., for the Period of 32 Weeks, January 1st to August 12th, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	1462	+166	415	−142	132	−14	28·62	+0·24	921	+115	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1643	+156	492	−128	114	− 6	14·47	−2·90	1075	+122	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	1962	+336	371	−104	95	−13	11·40	−2·22	1115	+ 36	38	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	2211	+314	409	−112	97	− 8	10·98	−2·28	1264	+159	43	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	2176	+281	415	−118	81	−23	9·10	−5·78	1092	+103	37	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	2245	+213	361	− 20	82	−17	10·52	−3·75	1336	+222	46	+ 8
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1840	+234	347	− 78	116	−10	22·65	−2·94	1099	+118	37	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	2009	+273	314	− 72	98	−17	15·86	−2·77	1171	+176	40	+ 6
8. ENGLAND, S.W.	91	13	*	*	*	*	2145	+207	297	− 4	91	−22	15·63	−4·54	1279	+183	44	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	1809	+125	302	− 43	111	−26	16·24	−4·82	1051	+148	36	+ 5
10. IRELAND, SOUTH	88	18	*	*	*	*	2155	+202	295	+ 36	118	− 4	18·55	−3·79	1116	+110	38	+ 4
11. ENGLISH CHANNEL	86	28	*	*	*	*	2361	+178	135	+ 26	98	−22	13·72	−3·05	1425	+ 99	49	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°		Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*67*	*8th*	*45*	*11th*	*62·5*	*51·6*	*56·7*	—	*103*	*0*	*4*	*0·47*	—	*54·3*	—	*48*	—	*Baltasound.*
	a Lerwick	67	8th	49	11th	61·9	53·4	57·4	+ 5·2	108	0	4	0·44	—	43·0	+14·5	39	+13	Deerness.
	a Stornoway	69	10th	49	11th, 12th	64·9	53·4	58·8	+ 4·8	118	0	4	0·53	− 0·36	44·1	+13·1	40	+12	Stornoway.
	a Castlebay, Barra Isd.	*67*	*12th*	*50*	*11th*	*62·1*	*54·1*	*57·9*	+ *1·4*	*111*	*0*	*4*	*0·38*	—	*37·6*	—	*35*	—	*Castlebay.*
	a Wick	72	9th, 10th	41	11th	64·9	51·0	57·5	+ 3·1	109	0	3	0·07	− 0·58	*	*	*	*	* *
	p Strathpeffer.. ..	79	9th	48	11th	69·6	53·0	60·8	+ 5·3	132	0	3	0·16	− 0·44	35·2	+ 7·0	32	+ 6	Strathpeffer.
	p Glencarron	75	9th	50	11th	65·6	53·4	59·1	+ 5·4	120	0	4	1·39	− 0·13	*	*	*	*	* *
	p Fort Augustus S	77	9th	46	11th	67·3	52·9	59·7	+ 4·0	124	0	2	0·40	− 0·38	46·1	+25·1	42	+23	Fort Augustus.
	p Fort William S	75	9th	49	11th	68·5	53·2	60·4	+ 4·2	129	0	3	0·80	− 0·55	*	*	*	*	* *
1. SCOTLAND, E.	*p* Gordon Castle S	84	9th	42	11th	71·7	51·9	61·2	+ 4·9	134	0	3	0·13	− 0·67	51·2	—	47	—	*Gordon Castle.*
	a Nairn	84	9th	45	11th, 12th	70·9	51·4	60·6	+ 4·4	130	0	3	0·06	− 0·49	48·1	—	44	—	Nairn.
	a Aberdeen	77	9th	47	11th	70·1	53·9	61·5	+ 5·5	137	0	2	0·35	− 0·28	55·1	+19·8	51	+18	Aberdeen.
	a Balmoral .. S	86	10th	43	6th	75·7	50·3	62·2	+ 8·8	141	0	1	0·03	− 0·74	53·6	—	49	—	Crathes S.
	p Crieff .. .. S	76	10th	48	6th, 11th	70·2	52·9	61·0	+ 3·5	133	0	1	0·05	− 0·82	63·3	—	58	—	Balruddery.
	a Leith	82	9th	53	6th	71·0	56·9	63·5	+ 5·5	151	0	2	0·06	− 0·57	*	*	*	*	* *
	p West Linton.. S	75	9th	44	11th	67·0	51·2	58·6	+ 3·7	116	0	3	0·35	—	*53·5*	—	*50*	—	*West Linton.*
	p Marchmont .. S	83	9th	48	6th, 11th	69·4	53·6	61·0	+ 5·2	133	0	4	0·23	− 0·54	54·4	+19·4	50	+18	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	81	8th	48	11th	70·4	54·9	62·2	+ 5·4	141	0	3	0·09	− 0·56	55·7	—	52	—	Cockle Park.
	a Shields	81	9th	51	11th	70·9	55·3	62·6	+ 4·9	144	0	3	0·06	− 0·54	*41·5*	*+10·6*	*39*	*+10*	*Newcastle.*
	p Durham	86	9th	51	11th	72·9	55·9	63·9	+ 6·0	153	0	2	0·12	− 0·47	49·1	+14·2	46	+13	Durham.
	p Rounton .. M	89	9th	50	11th	71·8	56·1	63·5	+ 6·2	151	0	1	0·14	− 0·50	*	*	*	*	* *
	p Scarborough.. M	74	7th	54	6th	63·6	58·6	63·3	+ 4·9	149	0	2	0·03	− 0·57	54·2	—	51	—	Scarborough.
	p York	90	9th	54	6th	78·0	57·7	67·2	+ 8·0	176	0	1	0·21	− 0·38	64·3	+28·3	60	+27	York.
	a Spurn Head	74	7th, 9th	56	6th	70·4	60·4	65·1	+ 5·7	162	0	1	0·05	− 0·39	*	*	*	*	* *
— b, South.	*a* Lincoln	96	9th	52	6th	81·3	58·1	69·0	+ 9·3	189	0	2	0·02	− 0·50	66·9	—	63	—	Skegness.
	a Fulbeck	96	9th	52	6th	82·4	57·8	69·4	+ 9·7	192	0	2	0·04	− 0·51	58·4	—	55	—	Rauceby.
3. ENGLAND, E. — a, North.	*p* Cromer	92	9th	54	6th	79·0	59·2	68·5	+ 8·6	186	0	2	0·12	—	*78·6*	—	*75*	—	*Lowestoft.*
	p Hillington .. M	97	9th	52	6th, 8th	82·2	57·8	69·3	+ 9·4	191	0	3	0·14	− 0·50	67·9	—	64	—	Cromer.
	a Yarmouth	79	7th	56	6th	75·0	62·0	68·1	+ 7·8	183	0	0	0·00	− 0·55	68·3	+25·9	65	+25	Hillington.
	a Norwich	94	9th	55	6th	83·0	59·3	70·4	+10·3	199	0	0	0·00	—	75·5	—	72	—	Yarmouth.
	p Geldeston	89	9th	54	6th	81·8	59·6	70·0	+10·3	196	0	1	0·01	− 0·50	*	*	*	*	* *
	p Cambridge	96	9th	52	6th	82·7	57·6	69·4	+ 9·6	192	0	0	0·00	− 0·53	76·5	+31·1	73	+30	Geldeston.
— b, South.	*a Felixstowe*	*82*	*10th*	*56*	*6th*	*77·4*	*62·0*	*69·2*	+ *8·1*	*190*	*0*	*0*	*0·00*	—	68·1	+23·7	65	+23	Cambridge.
	a Clacton-on-Sea ..	83	10th	56	6th	77·3	62·1	69·2	+ 8·2	190	0	0	0·00	—	*88·2*	—	*84*	—	*Felixstowe.*
	a Rothamsted ..	92	9th	51	6th	81·8	56·0	68·1	+ 8·6	183	0	0	0·00	− 0·56	84·2	—	81	—	Clacton.
	a Shoeburyness ..	*83*	*10th*	*57*	*6th*	*77·7*	*60·1*	*68·4*	+ *5·9*	*185*	*0*	*0*	*0·00*	− *0·39*	70·0	+24·0	67	+23	Rothamsted.
	p Tottenham	96	9th	56	6th	85·2	59·8	71·7	+10·0	208	0	0	0·00	—	*80·9*	—	*78*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	87	9th	52	6th	74·5	56·0	64·7	+ 7·2	159	0	2	0·29	− 0·33	76·2	—	73	—	Tottenham.
	a Bawtry	94	9th	53	6th	81·6	57·0	68·6	+ 9·0	186	0	2	0·08	− 0·46	61·2	—	57	—	Harrogate.
	p Buxton .. M	*88*	*9th*	*51*	*6th*	*76·2*	*55·1*	*65·0*	+ *8·6*	*161*	*0*	*1*	*0·45*	− *0·55*	56·2	+21·5	53	+20	Worksop.
	a Nottingham ..	94	9th	52	6th	80·1	57·1	67·9	+ 8·3	181	0	3	0·32	− 0·23	*69·6*	—	*66*	—	*Buxton.*
	p Birmingham, Edgbsn	94	9th	52	6th	79·8	58·0	68·3	+ 9·6	184	0	1	0·02	− 0·56	51·4	—	49	—	Nottingham.
	a Raunds .. M	98	9th	52	6th	83·1	56·6	69·1	+ 8·7	190	0	1	0·09	—	53·7	—	51	—	Birmingham.
	a Oxford	95	9th	54	6th	82·1	58·3	69·5	+ 8·9	193	0	0	0·00	− 0·53	*	*	*	*	* *
— b, West.	*a* Cheadle .. M	89	9th	50	6th, 10th	77·6	54·5	65·4	+ 8·0	164	0	1	0·13	− 0·62	62·8	+19·4	60	+19	Oxford.
	p Shrewsbury	93	9th	52	11th	78·6	53·7	65·4	+ 6·3	164	0	1	0·02	—	62·2	—	59	—	Sheffield.
	a Hereford .. M	89	10th	51	8th	79·9	54·9	66·7	+ 7·3	173	0	0	0·00	− 0·54	*	*	*	*	* *
	a Cirencester	93	9th	50	6th, 8th	81·1	55·1	67·3	+ 8·8	177	0	0	0·00	− 0·66	*	*	*	*	* *
	a Bath	91	9th	52	6th, 8th	80·9	57·0	68·2	+ 8·2	183	0	1	0·02	− 0·59	64·9	+22·1	62	+21	Cirencester.
5. ENGLAND, S.E... ..	*p* Kew	95	9th	55	6th	84·9	59·4	71·4	+10·2	206	0	0	0·00	− 0·50	68·1	—	66	—	Bath.
	a Marlborough ..	96	9th	48	8th	82·7	53·9	67·4	+ 8·6	178	0	1	0·03	− 0·53	*76·0*	—	*73*	—	*Ramsgate.*
	a Margate	92	9th	56	6th	80·3	62·5	70·9	+ 9·0	202	0	0	0·00	− 0·45	75·6	+31·2	73	+30	Kew.
	a Wisley, Surrey ..	96	9th	53	8th	85·3	56·5	70·0	+ 8·3	196	0	0	0·00	—	71·5	+26·5	69	+26	Margate.
	a Swarraton .. M	93	9th	49	8th	83·2	55·9	68·7	+ 9·4	187	0	0	0·00	− 0·59	77·5	—	75	—	Wisley.
	a Tunbridge Wells M	95	9th	52	6th	84·6	57·7	70·3	+10·2	198	0	0	0·00	− 0·50	83·4	—	80	—	Worthing.
	a Dungeness	81	9th	55	8th	74·9	61·3	67·7	+ 6·7	180	0	0	0·00	− 0·43	83·0	+37·5	80	+36	Tunbridge Wells.
	p Hastings	89	12th	54	6th	81·3	62·3	71·2	+10·0	204	0	0	0·00	− 0·53	81·3	—	78	—	Littlestone.
	p Southampton ..	88	9th, 12th	54	6th	82·1	59·5	70·1	+ 7·8	197	0	0	0·00	− 0·57	*86·2*	*+35·6*	*83*	*+34*	*Hastings.*
	a Ventnor	87	10th	57	6th, 8th	78·4	61·7	69·6	+ 7·4	193	0	1	0·24	− 0·23	79·2	+30·8	76	+30	Southampton.
															83·1	+35·8	80	+34	Ventnor.
															85·6	+35·9	82	+35	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*96*	*9th*	*57*	*6th*	*84·9*	*61·1*	*72·3*	+*11·0*	*212*	*0*	*0*	*0·00*	− *0·52*	*76·9*	+*37·4*	*74*	+*36*	*Westminster.*
	a Greenwich	*100*	*9th*	*55*	*6th*	*87·9*	*59·0*	*72·6*	+ *9·9*	*214*	*0*	*0*	*0·00*	− *0·51*	*82·5*	+*32·0*	*79*	+*31*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*a* Poltalloch .. S	75	11th	49	10th	68·2	54·3	60·8	+ 3·7	132	0	3	0·41	− 0·62	*	*	*	*	* *
	p Glasgow	75	8th	52	6th	68·4	55·5	61·6	+ 4·9	137	0	1	0·05	− 0·80	52·3	+21·7	48	+20	Glasgow.
	p Rothesay .. S	73	11th	51	6th, 10th	68·9	55·1	61·6	+ 4·6	137	0	3	0·32	− 0·74	*	*	*	*	* *
	a Kilmarnock	74	8th	46	11th	69·7	53·4	61·1	+ 4·0	134	0	1	0·08	—	*60·0*	—	*56*	—	*Kilmarnock.*
	a Colmonell	82	12th	47	11th	73·3	53·4	62·8	+ 5·7	146	0	1	0·04	− 0·85	*	*	*	*	* *
	p Dumfries	77	8th	51	10th	71·1	55·6	62·9	+ 5·0	146	0	1	0·13	− 0·72	*64·0*	—	*60*	—	*Dumfries.*
	p Cally, Gatehouse S	75	8th, 10th	46	10th	72·1	52·0	61·5	+ 4·9	137	0	1	0·13	− 0·87	*	*	*	*	* *
— b, ISLE OF MAN ..	*p* Douglas	77	12th	52	10th	69·1	55·9	62·1	+ 5·2	141	0	1	0·14	− 0·73	69·9	+28·9	65	+27	Douglas.
7. — a, ENGLAND, N.W...	*p* Aspatria	80	8th	49	11th	71·9	55·4	63·2	+ 6·5	148	0	2	0·10	− 0·86	74·9	—	71	—	Hoylake.
	p Newton Rigg ..	81	9th	44	11th	73·3	53·1	62·6	+ 6·5	144	0	1	0·13	− 0·63	77·5	—	72	—	Aspatria.
	p Stonyhurst	82	12th	51	6th	77·0	55·7	65·7	+ 8·0	166	0	1	0·38	− 0·67	68·5	+32·5	64	+30	Newton Rigg.
	p Blackpool .. M	83	8th, 12th	50	11th	73·5	57·1	64·8	+ 6·1	160	0	1	0·41	− 0·35	68·3	+32·3	64	+30	Stonyhurst.
	p M'nch'ster, Prestwich	90	9th	53	6th	79·0	57·3	67·5	+ 9·4	179	0	1	0·39	− 0·44	75·3	+36·7	71	+35	Blackpool.
	a Liverpool (Bidston)	84	8th, 12th	53	6th	75·4	57·9	66·1	+ 7·4	169	0	1	0·32	− 0·35	*66·1*	+*33·8*	*62*	+*32*	*Prestwich.*
	a Hawarden Bridge ..	86	12th	55	6th, 11th	76·9	57·3	66·5	+ 6·5	172	0	1	0·09	− 0·54	*73·1*	—	*69*	—	*Liverpool.*
															78·8	+*38·1*	*74*	+*36*	*Southport.*
															75·4	—	*71*	—	*Rhyl.*
— b, NORTH WALES ..	*p* Llandudno .. M	79	8th, 12th	55	6th, 11th	73·1	58·7	65·5	+ 6·1	165	0	1	0·17	− 0·46	73·2	+34·2	69	+32	Llandudno.
	a Holyhead	79	8th	55	6th	68·6	58·0	63·0	+ 4·5	147	0	2	0·47	− 0·19	56·1	—	53	—	Aberdovey.
	p Bettws-y-Coed ..	85	8th	49	11th	73·3	54·0	63·1	+ 4·1	148	0	1	0·35	—	61·4	—	58	—	Bettws-y-Coed.
															53·6	—	51	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	82	12th	50	10th, 11th	74·3	52·2	62·6	+ 5·4	144	0	1	0·16	—	61·8	—	59	—	Llangammarch Wells.
	a Pembroke	78	12th	55	11th	71·0	57·9	64·1	+ 5·5	155	0	1	0·04	− 0·59	53·9	+ 9·3	52	+ 9	Pembroke.
	p Cardiff	86	12th	55	6th	77·2	57·9	67·0	+ 6·6	175	0	2	0·02	− 0·89	*61·7*	—	*59*	—	*Cardiff.*
															60·5	+*15·1*	*58*	+*15*	*Tenby.*
— b, ENGLAND, S.W. ..	*a* Clifton	88	12th	55	8th	80·4	58·6	68·9	+ 7·6	188	0	1	0·11	− 0·63	*65·3*	—	*63*	—	*Clifton.*
	a Shaftesbury .. M	91	9th	52	6th	79·9	57·5	68·0	+ 8·7	182	0	1	0·04	− 0·62	*	*	*	*	* *
	a Arlington	85	12th	54	6th, 8th	73·9	57·0	64·9	+ 7·0	160	0	1	0·10	− 0·97	62·2	+15·2	60	+15	Newquay.
	a Cullompton .. M	88	12th	51	6th	80·0	56·1	67·3	+ 7·6	177	0	2	0·06	− 0·61	66·8	+25·4	64	+24	Cullompton.
	a Portland Bill ..	83	10th	59	8th	72·7	61·3	66·7	+ 6·0	173	0	0	0·00	—	*83·8*	—	*81*	—	*Weymouth.*
	p Plymouth	82	12th	58	6th, 8th	75·6	61·2	68·0	+ 7·3	182	0	0	0·00	− 0·64	75·5	+30·1	73	+29	Plymouth.
	p Falmouth	73	12th	57	6th	69·3	60·5	64·6	+ 4·5	158	0	1	0·03	− 0·69	65·2	+15·6	63	+15	Falmouth.
															—	—	—	—	*Salcombe.*
															79·0	+*30·6*	*76*	+*30*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	75	8th	50	6th	65·7	54·6	59·8	+ 3·3	125	0	1	0·02	− 0·76	*	*	*	*	* *
	a Blacksod Point ..	68	8th, 11th	49	11th	65·0	55·4	59·9	+ 2·5	125	0	3	1·01	+ 0·01	*	*	*	*	* *
	a Markree Castle ..	75	8th	43	11th	70·6	53·4	61·5	+ 5·0	137	0	5	0·19	− 0·75	40·6	+11·2	38	+11	Markree Castle.
	a Birr Castle	74	7th, 8th	45	11th	70·3	51·4	60·3	+ 2·4	128	0	3	0·68	− 0·15	*47·0*	+*14·8*	*44*	+*14*	*Birr Castle.*
— b, East.	*p* Armagh	74	8th	46	11th	70·5	52·9	61·2	+ 4·2	134	0	2	0·02	− 0·82	47·5	+17·3	44	+16	Armagh.
	a Donaghadee	72	9th	50	6th	67·6	54·4	60·6	+ 3·1	130	0	1	0·32	− 0·43	*	*	*	*	* *
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	74	7th, 8th	53	11th	70·5	57·1	63·4	+ 3·7	150	0	3	0·15	− 0·55	49·0	+11·6	46	+11	Phœnix Park.
	a Kilkenny	72	11th	46	10th	69·6	53·7	61·2	+ 2·9	134	0	5	0·46	− 0·31	*	*	*	*	* *
	a Waterford	74	12th	49	11th	69·7	55·3	62·1	+ 3·2	141	0	2	0·17	− 0·66	*	*	*	*	* *
— b, West.	*a* Birr Castle	74	7th, 8th	45	11th	70·3	51·4	60·3	+ 2·4	128	0	3	0·68	− 0·15	47·0	+14·8	44	+14	Birr Castle.
	a Foynes	73	8th	49	11th	70·1	55·5	62·4	+ 3·8	143	0	3	0·31	− 0·58	*	*	*	*	* *
	a Cahir .. .. M	74	11th	44	11th	71·0	55·5	62·8	+ 4·3	146	0	5	0·45	—	*	*	*	*	* *
	a Killarney	76	10th	46	10th, 11th	71·6	55·0	62·8	+ 4·5	146	0	3	0·23	− 0·76	*	*	*	*	* *
	a Valencia	71	11th, 12th	49	10th, 11th	67·4	55·0	60·8	+ 2·2	132	0	5	0·87	− 0·23	42·1	+ 7·1	40	+ 7	Valencia.
	a Roche's Point ..	72	11th	52	10th, 11th	66·6	56·0	61·0	+ 2·1	133	0	6	0·51	− 0·32	39·2	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	72	8th	59	10th	68·7	60·1	64·1	+ 3·4	155	0	2	0·81	+ 0·26	60·5	+ 9·1	59	+ 9	Scilly.
	a Jersey, St. Aubins ..	85	8th	59	6th	78·7	62·4	70·1	+ 7·5	197	0	1	0·01	− 0·53	77·4	+22·0	75	+21	St. Heliers.
	a Guernsey	84	9th	57	6th	76·7	61·2	68·5	+ 7·0	186	0	0	0·00	− 0·58	76·9	+20·2	75	+20	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 86·9 hrs.* (*+36·1 hrs.*), *84* % (*+35* %); *Bournemouth, 85·0 hrs., 82* %; *Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	58·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	56·4
	Crathes	0	33	61·1	57·0
	Balmoral	0	39	—	—
	West Linton	—	—	—	—
	Marchmont	0	42	61·0	—
2.	Cockle Park	0	46	62·2	58·9
	Durham	0	46	—	—
	York	—	—	63·6	59·1
	Hull	0	50	64·4	58·0
	Lincoln	—	—	64·6	59·9
	Rauceby	0	48	68·6	61·9
3.	Norwich	0	51	—	—
	Yarmouth	—	—	72·3	65·3
	Lowestoft	0	51	69·2	62·3
	Cambridge	0	40	69·6	62·6
	Clacton-on-Sea	0	50	67·3	62·0
	Southend	0	51	73·7	—
	Tottenham	0	51	—	65·5

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	47	60·8	58·6
	Huddersfield	0	51	66·8	59·9
	Buxton	0	46	63·1	56·8
	Sheffield	0	53	64·0	55·1
	Nottingham	0	48	68·0	62·1
	Birmingham	0	? 47	62·0	56·3
	Oxford	0	—	—	—
	Hereford	—	—	—	—
	Cirencester	0	43	64·9	60·4
	Bath	—	—	67·5	64·0
5.	Margate	0	53	67·9	63·1
	Greenwich	0	? 46	—	—
	Westminster	0	51	—	—
	Kew	0	48	67·9	60·8
	Canterbury	0	49	68·4	66·8
	Tunbridge Wells	0	48	67·9	—
	Wisley	0	46	69·3	64·1
	Worthing	0	50	69·7	63·3
	Portsmouth	—	—	—	—
6.	Glasgow	0	44	—	—
	Rothesay	—	—	—	56·2
	Colmonell	0	44	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	40	63·7	61·0
	Douglas	0	49	—	—
7.	Aspatria	0	45	61·8	56·5
	Newton Rigg	0	39	62·1	57·8
	Burnley	0	45	62·1	57·6
	Southport	0	46	66·1	63·0
	Manchester City	0	52	66·1	62·1
	Bettws-y-Coed	0	47	61·4	58·0
8.	Llangammarch Wells	0	37	61·7	56·7
	Cardiff	0	49	66·1	62·1
	Clifton	0	52	—	—
	Plymouth	0	53	68·8	—
9.	Armagh	0	39	62·3	59·0
	Markree	0	38	62·6	57·8
10.	Dublin, Trin. Coll.	—	—	—	—
11.	Guernsey, Brooklyn	0	48	67·7	63·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	55	55	55·0
	Kirkwall	60	59	60·0
	Wick	56	55	55·4
SCOTLAND E.	Cromarty	61	56	58·4
	Pennan Bay	58	54	55·9
	Aberdeen, Cove Bay	56	56	56·0
ENGLAND, N.E.	Burnmouth, Berwick	56	55	55·5
	Scarborough	66	56	60·9
ENGLAND, E.	Shipwash Lightship	68	65	67·0
	Margate‡	70	67	68·3
ENGLAND, S.E.	Eastbourne‡	69	64	66·1

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	61	56	57·5
	Ballantrae	61	55	58·1
ENGLAND, N.W.	Port Erin	62	58	59·3
ENGLAND, S.W.	Newquay	63	61	61·9
	Scilly	64	60	61·2
	Plymouth‡	65	65	65·1
	Salcombe	63	59	60·9
IRELAND, N.W.	Sheephaven	62	59	59·5
	Teelin	62	60	61·4
IRELAND, S.W.	Cleggan	62	54	58·0
IRELAND, E.	Seafield	66	58	61·5
	.. .. ..	—	—	—

‡ Only one observation each day.

Registering Balloon Ascents, 1911.

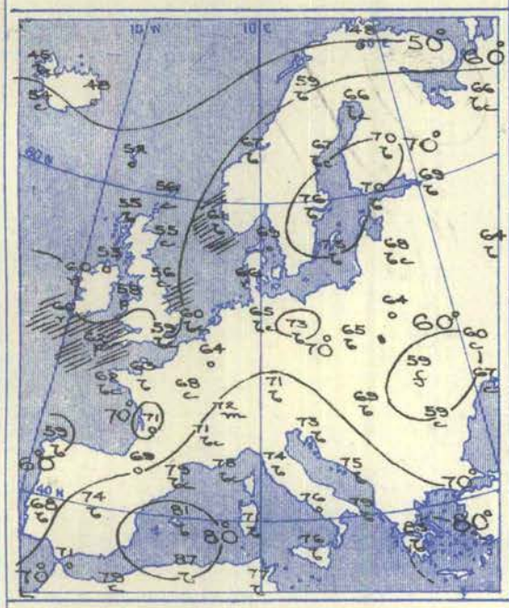
Height km.	1 Mungret College, Limerick. July 6th. 7.10 a.m. Pressure. Mgd.	Temperature. °A	2 Manchester. July 6th. 8.45 p.m. Pressure. Mgd.	Temperature. °A	Height km.
Ground	1·024	285·5			Ground
0·5	·978	287			0·5
1·0	·924	285			1·0
1·5	·871	284			1·5
2·0	·818	281			2·0
2·5	·769	278			2·5
3·0	·724	275·5			3·0
3·5	·683	274 Isothermal 3·3 to 3·7			3·5
4·0	·641	272			4·0
4·5	·604	269			4·5
5·0	·565	265			5·0
5·5	·528	260·5			5·5
6·0	·496	257			6·0
6·5	·464	252			6·5
7·0	·434	245			7·0
7·5	·405	247	No Record.		7·5
8·0	·377	243	Instrument Broken.		8·0
8·5	·352	239			8·5
9·0	·328	235			9·0
9·5	304	231			9·5
10·0	·284	228			10·0
11·0	·244	223			11·0
12·0	·211	217			12·0
13·0	·180	216·5			13·0
14·0	·155	218			14·0
15·0	·132	218			15·0
16·0	·114	218			16·0
17·0	·097	219			17·0
18·0	·084	220			18·0
19·0	·072	221			19·0
20·0	·061	222			20·0
21·0	.053	223			21·0

1.—Calm. Cloudy. Cirrus moving slowly from W. Balloon fell at Cooleeney distant 56 km. direction 68.° Height at which stratosphere was reached 12.7 km., temperature —57° A. Lowest temperature 57° A, at 12·7 km. Greatest height 21 km. **2.**—Balloon fell at Torksey, Lincoln, distant 99 km., direction 103°.

Sunday, 6th August, 1911.

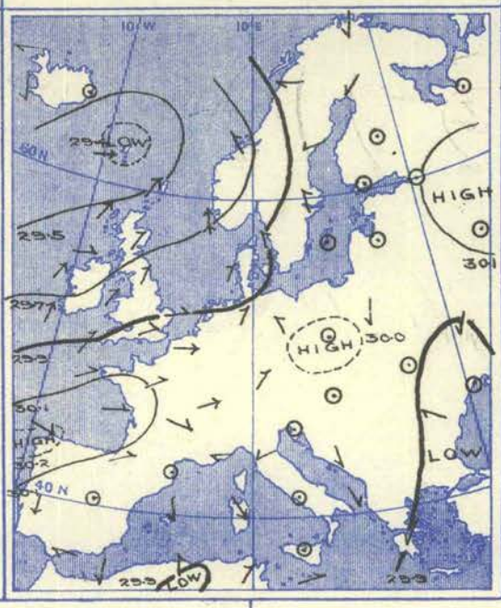
Temperature and Weather.

7 a.m.

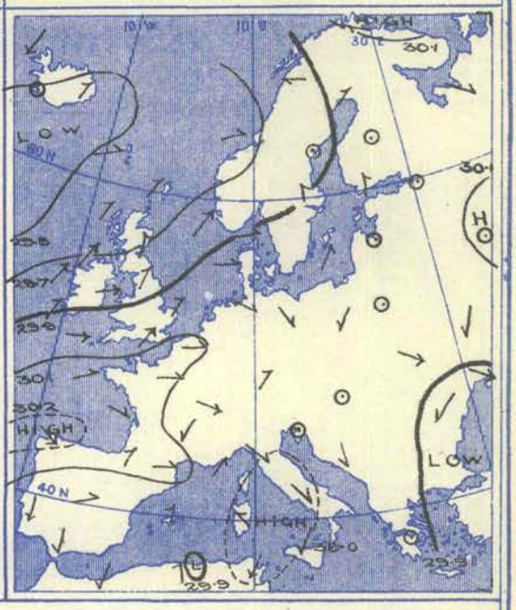


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy or showery in Ireland, Wales, and at Wick and Skudesnaes, but fair to very bright over our area generally. Rain experienced later over the greater part of the United Kingdom except the south and south-east of England, but not in large quantity. Thunderstorms occurring in central and southern France and the adjacent portion of Italy; 1·3 in. of rain at Turin, and 2·6 in. at Biarritz. Considerable or heavy amounts of rain falling in various parts of Austria and Switzerland, as well as in Norway.

Temperature fallen over these Islands, changed irregularly on the Continent. Morning readings above 80° at several stations in the Mediterranean region and also in North Germany, southern Sweden, and Finland. Below 60° over the greater part of the United Kingdom, as well as at Corunna and Bodö, and 45° at Vardö. Maxima during day below 75° at most of our own stations, but above 80° at Stockholm and a very large area farther south; above 90° in several southern regions, 99° at Algiers, and 108° at Biskra. Minima no lower than 60° in many parts of England.

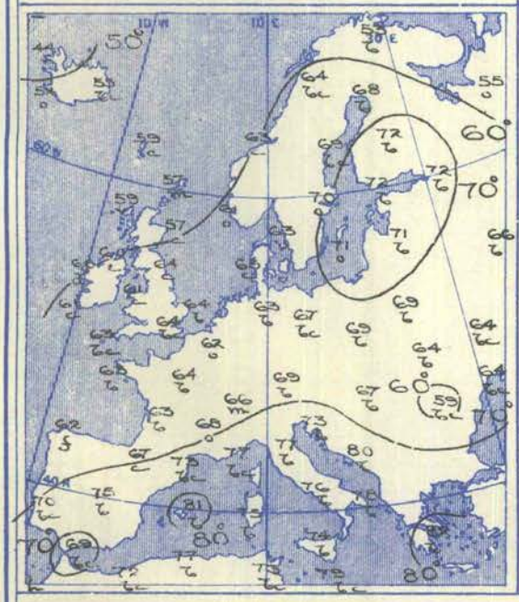
Wind in morning between S. and W. in these Islands, light to fresh in force, strong to a gale from South on the south-west coast of Norway, and light from North or East in Iceland. Light anticyclonic airs prevalent in almost all other parts of our area. No change of importance later in day.

Barometer in morning above 30·1 in. in an anticyclone extending from the Azores to France, and also in another system over the central portion of Russia. Below 29·4 in. in a large cyclonic disturbance having its minimum near Thorshavn. Little change in the general distribution of pressure occurring during day. Barometer rising over these Islands, falling in Iceland.

Monday, 7th August, 1911.

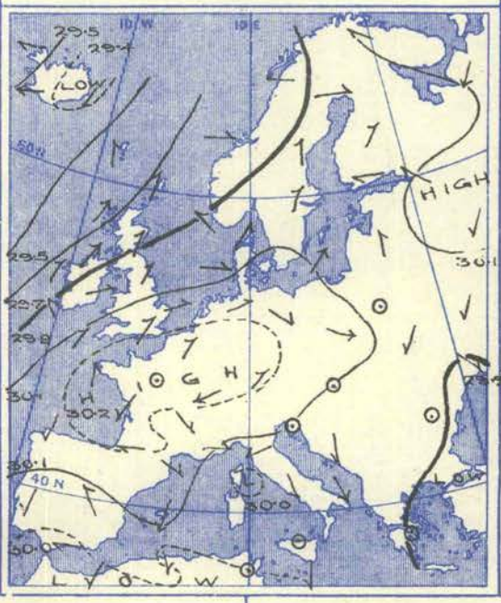
Temperature and Weather.

7 a.m.

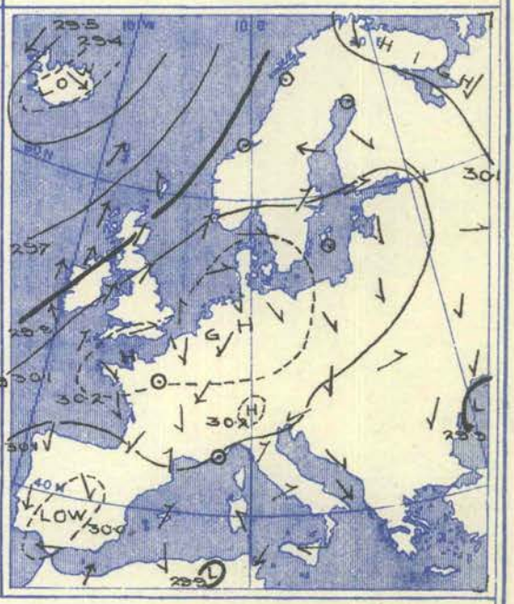


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very bright generally, but cloudy or overcast in a few localities and rainy at Blacksod Point, Stornoway, and Uleaborg, and foggy at Corunna. Thunderstorms in Finland later and heavy rain in several parts of Russia, 1·4 in. at St. Petersburg and 0·8 in. at Sebastopol. A little rain at Lugano, in the north of Norway, in the west and extreme north-west of the United Kingdom, and 0·9 in. at Gap.

Temperature risen over these Islands, fallen or changed irregularly on the Continent. Readings in morning about 80° at a few Mediterranean stations, above 70° over Finland and the nearer parts of Russia and Prussia, and above 60° over nearly the whole of our area except the extreme north and north-west. Maxima during day 99° at Palma, 96° at Florence, and above 90° over a large area in southern Europe; above 80° in the central countries and also in London. Thermometer remaining below 70° in the extreme north of Scotland and in and in the west and north of Ireland.

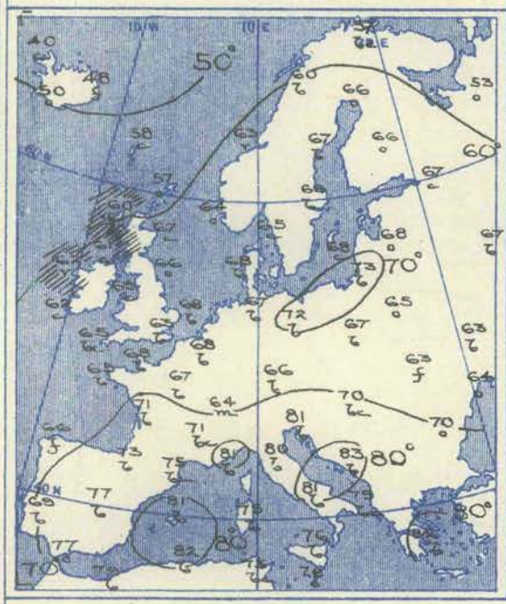
Wind in morning Southerly to South-Westerly over the United Kingdom, light or moderate generally, strong at Blacksod Point. Mainly anticyclonic and of little force on the Continent. Increasing in force to a strong breeze in the Hebrides and to a high wind on the north-west coast of Ireland. Blowing strongly from the Northward in the west of Iceland.

Barometer in morning 30·2 in. and above over a large area on the Continent to the south and south-east of these Islands, and above 30·1 in. in the north-east of the Continent. Below 29·9 in. over the south-east of Europe and below 29·4 in. in a large depression centred over Iceland. Below 30·0 in. in a shallow disturbance covering Corsica. Continental high pressure system extending north-eastward during day, but very little change taking place in the general distribution.

Tuesday, 8th August, 1911.

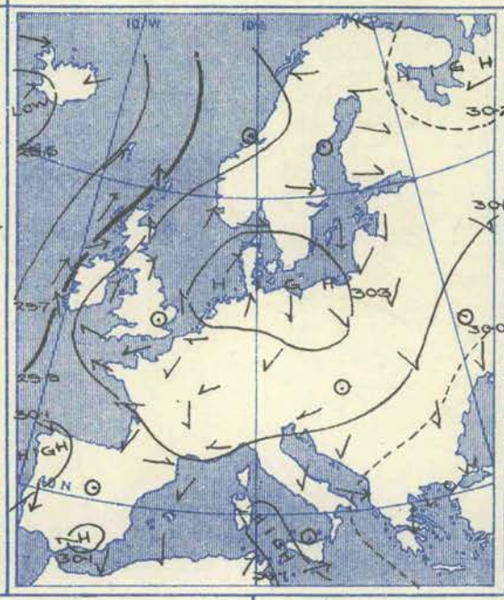
Temperature and Weather.

7 a.m.

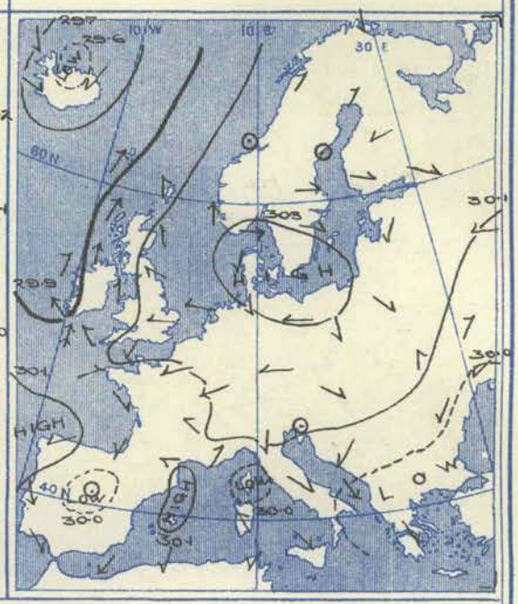


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine generally, but rainy at some outlying stations in the north-west of these Islands, and also at Christiansund. Some rain later in various parts of Russia, and as much as 1·3 in. at Lemberg.

Temperature risen at many stations in Great Britain, France, and the Netherlands, fallen in most other regions. Readings in morning ranging from about 80° at some places in the extreme south and about 70° in North Germany to about 60° in the north of Scotland and north of Norway, and to 53° at Archangel. Rising later to 89° or 90° in some parts of London and to above 80° over a large portion of England. Maxima above 90° at Brussels and at many French, Italian, and Spanish stations, and also at Athens.

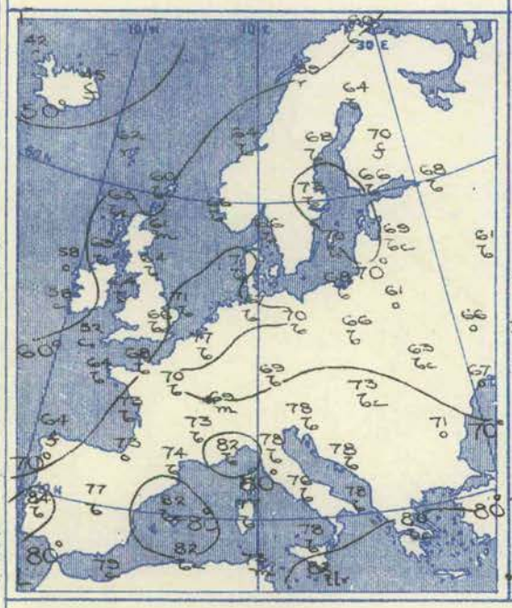
Wind in morning light and anticyclonic over our area generally, but Southerly current prevailing over the United Kingdom fresh to high on the extreme north-west coasts. Becoming more decided during day from between South and East over England and rising to a strong breeze from South at Skudesnaes.

Barometer in morning above 30·3 in. in a large anticyclonic system having its centre over Germany and Denmark, and nearly as high in the north of Russia. Below 29·5 in. in a depression over Iceland, and below 29·7 in. in a secondary some distance to the westward of Ireland. Latter disturbance approaching nearer to this country during day, but little change occurring in the general distribution of pressure.

Wednesday, 9th August, 1911.

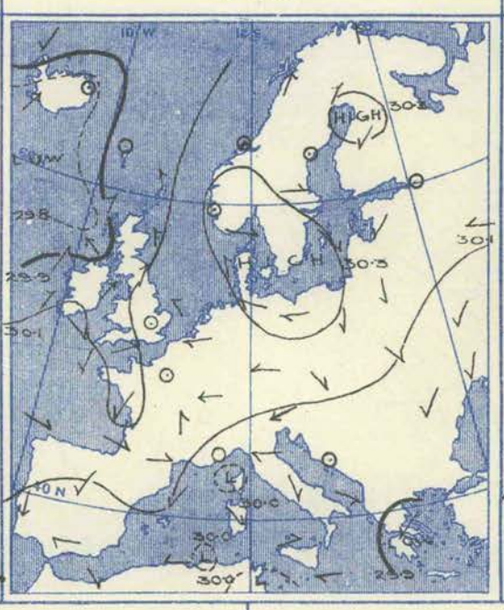
Temperature and Weather.

7 a.m.

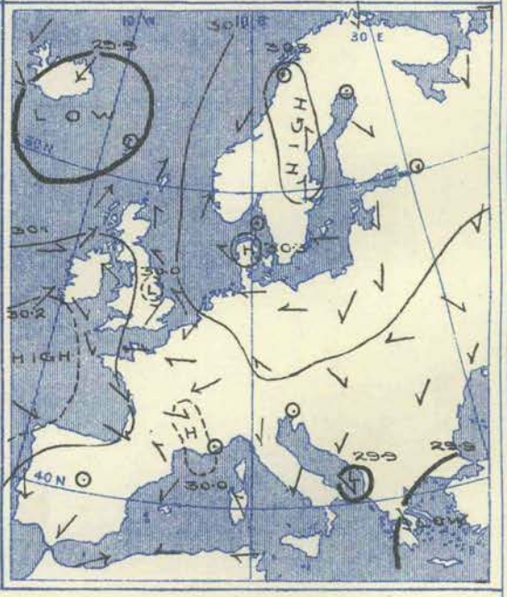


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very fine generally, but cloudy in Ireland, rainy at Bodö, and foggy at Corunna and Oporto. A thunderstorm prevailing at Malta. Thunderstorms occurring in Scotland later. About 0·5 in. of rain falling at Lemberg, and also at Bodö.

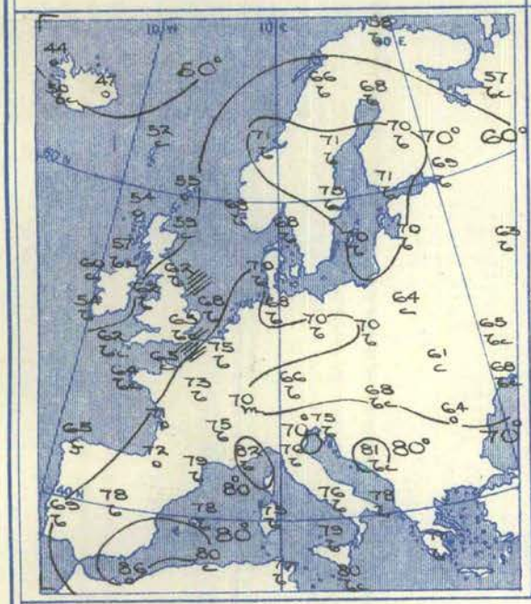
Temperature risen in England and the nearer regions of the Continent. Morning readings above 80° at a few stations on the shores of the Mediterranean, about 70° in the south-east of England and over a large area on the Continent, and as high as 60° as far north as Vardö. Maxima during day above 90° at many places in south-eastern and central England; 97° at Hillington and in some parts of London, and 100° at Greenwich. Readings above 90° very common in France, the Low Countries, and Italy; 97° at Brussels, 98° at Paris, 99° at Lyons and Le Mans, and 100° at Châteaudun. Minima at night above 60° in many parts of England; 70° at the Helder and in the north-east of France.

Wind in morning light, cyclonic over the northern half of the Continent; mainly cyclonic over the Mediterranean region, and also over the United Kingdom and the west of France. Very light generally, but fresh over the north of Ireland, and strong at Bodö. No change of a general character during day. Increasing to a high wind from South-West at Stornoway.

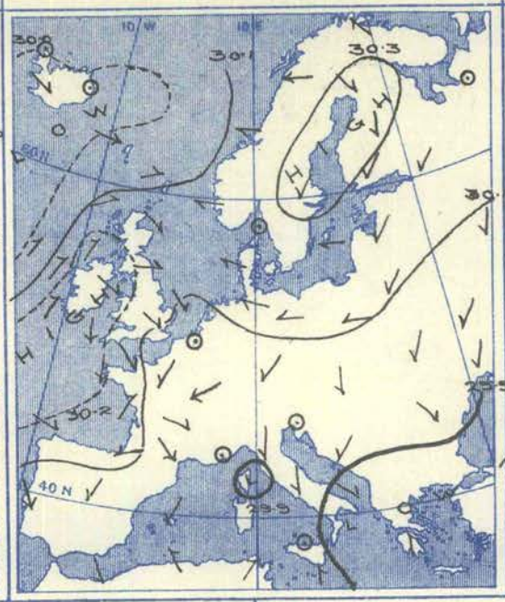
Barometer in morning above 30·3 in. in a large high pressure system having its maximum over Denmark and the Baltic, and also in another system in the Azores region. Below 29·8 in. in a large depression having its centre south of Iceland, and relatively low in other disturbances in the south of our area. Main anticyclone undergoing some modification in form and intensity later. Pressure increasing decidedly over the west of these Islands, as well as in Iceland and at the Azores.

Thursday, 10th August, 1911.

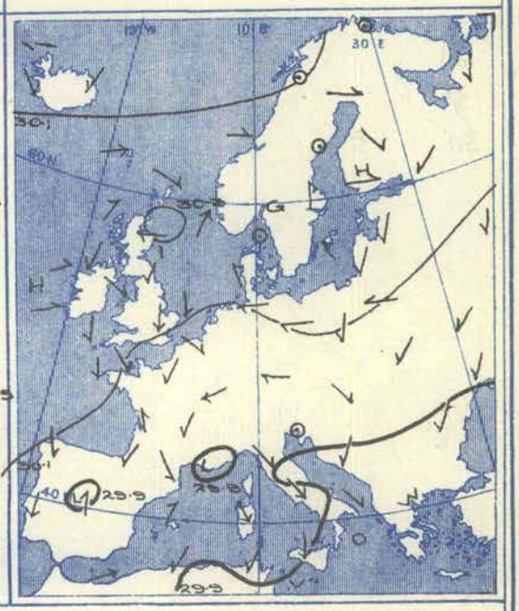
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or very fine generally, but fog prevailing at Corunna and Oporto. Local thunderstorms later in eastern and central England, thunderstorms in some French localities, and considerable or heavy falls of rain in Hungary, at Rome, and in the south of Russia.

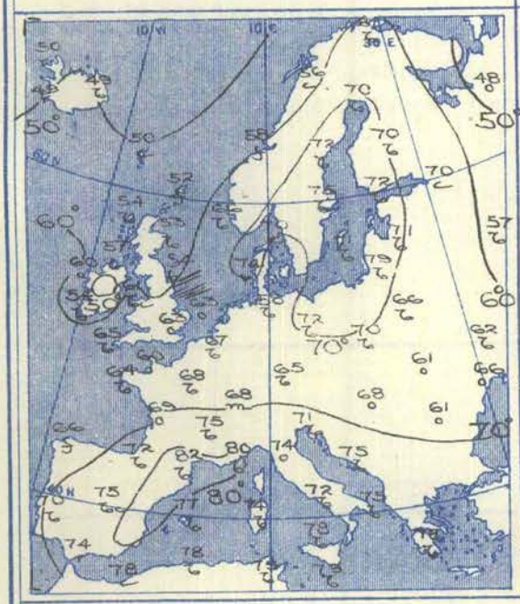
Temperature fallen in these Islands, decidedly in Ireland and Scotland, risen in Scandinavia, changed irregularly elsewhere. Morning readings below 60° in the extreme north, of the Continent and in Ireland and Scotland, nearly 70° in the south-east of England, above that value over the greater portion of the Continent, and above 80° at some places in the far south. Rising to above 80° during day in southern England to about 90° over a very large area on the Continent, to above 95° in several localities, to 100° at Lyons and Châteaudun, to 102 at Cette.

Wind in morning anticyclonic over the northern half of the Continent and in the west of these Islands, cyclonic elsewhere. Light generally, but Northerly current fresh in some parts of England, and a fresh breeze from East prevailing at San Fernando. No important change during day.

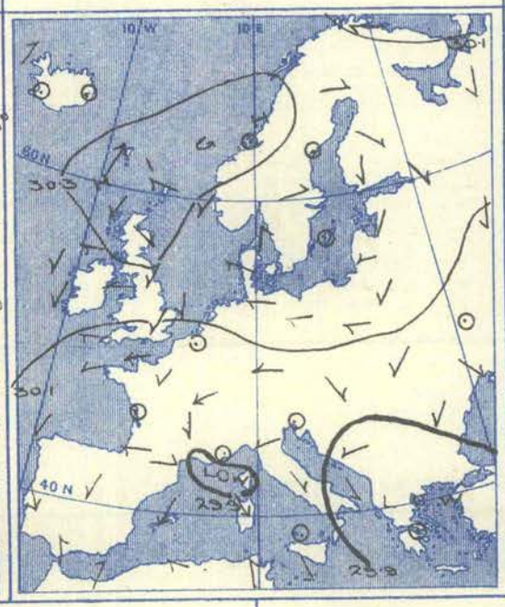
Barometer in morning above 30·3 in. in a large high pressure system centred over Finland and Sweden, and above 30·2 in. in a band extending from the Azores to the north-west of these Islands. Relatively low over the south and south-east of our area and gradient somewhat irregular. The two high pressure systems coalescing later and forming a band extending from the Azores to beyond the White Sea.

Friday, 11th August, 1911.

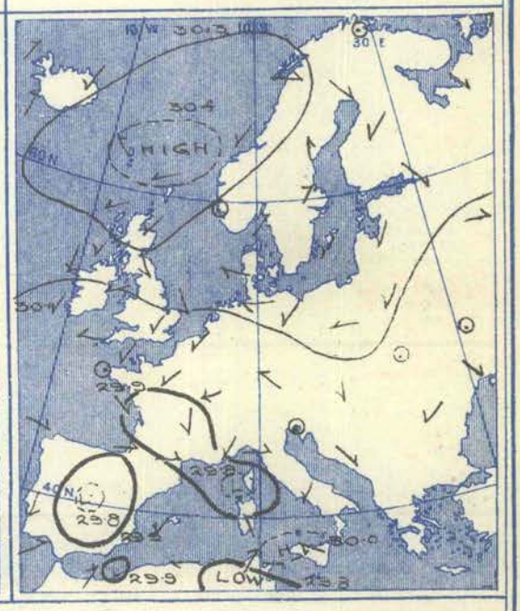
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very bright generally, but rain falling at Spurn Head and fog prevailing at Corunna, Lerwick and Christiansund. A few local thunderstorms in England later, as well as in some parts of southern France and at Bilboa. As much as 0·95 in. of rain at Biarritz.

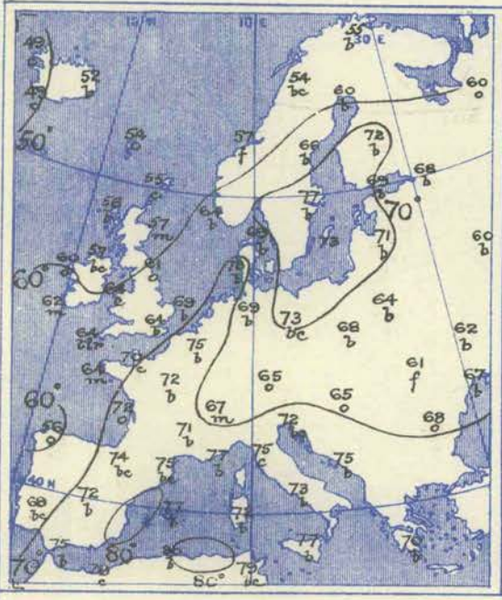
Temperature fallen generally in Norway, the United Kingdom, the Netherlands and France, and also over a large area in the south of Europe. Readings in morning 89° at Barcelona, nearly 80° at several other southern stations, as well as at Memel, and about 70° in Finland and Sweden. Below 60° in Scotland and only 48° at Archangel. Maxima during day 85° or rather higher at many places in England, 90° and above over a very large area in central Europe, the Netherlands, France and southern Europe; above 95° in several French localities, 99° at Lyons.

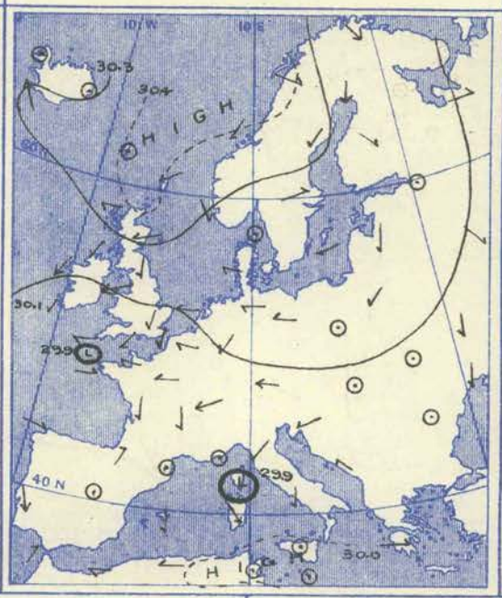
Wind in morning cyclonic over the Mediterranean region, anticyclonic elsewhere. Light or moderate generally, but fresh or strong in the east and south of England. No change of a general character occurring later in day.

Barometer in morning ranging from above 30·3 in. in a very large high pressure system having its maximum over Scotland and Norway. Below 29·9 in. in two shallow depressions in the south and south-east of Europe. Anticyclone increasing somewhat in intensity during day, but pressure decreasing over the Netherlands, France and Spain.

Saturday, 12th August, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning fair to bright generally, but cloudy or overcast in Scotland and the south of Ireland, with rain locally. A thunderstorm prevailing at Scilly, and rain at Vienna and Ulcaborg. About 0·5 in. of rain, with local thunderstorms later in the south and west of Ireland, and 0·64 in. at Scilly. Slight quantities of rain falling in the north-east of Great Britain.

Temperature fallen in Finland and the north of Scandinavia, changed irregularly elsewhere. Morning readings nearly 70° in the south-east of England, and above that figure over large areas on the Continent; 88° at Barcelona. Maxima during day 90° or 91° in London and also at Oxford and Seaford, 89° at Birmingham, 88° at Nottingham, 87° at Aberystwyth and about 85° at many other English stations. Thermometer rising to 90° and above in several parts of the Continent, and to 88° at Stockholm.

Wind in morning anticyclonic over all the central and northern parts of our area, cyclonic elsewhere. Light or moderate generally, but fresh in some parts of England. Becoming rather more Easterly later in England, but no change occurring over a large area.

Barometer in morning above 30·4 in. in a large anticyclone, having its centre off the north of Scotland and west of Norway. Below 30·0 in. in a vast area of irregular form covering most of southern Europe and extending to the south coast of Ireland. No change of importance taking place later in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). See also p. 260.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height. Metres.	Remarks.
1	1911. August 5th, 10.20 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	292° 73% 250°, 11	288° 80% 260°, 13	286·3° 85% 250°, 15·7	284° 73% 270°, 18	281° 55% 260°, 22				Ci. Str. and detached Cu. Lowest clouds 390m. above sea.
2	August 10th, 12 noon to 1.15 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	301·2° 72% 35°, 6·7	299° 78% 35°, 4·5	295·6 82% 60°, 4·5						Clear sky, with some small patches of detached Cu.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites	2	1
Area of Surface (sq. metres) ..	9·5	7
Capacity of Balloon (cub. metres) ..	—	—
Length of Wire (metres)	2,000	1,000

South Kensington, London, S.W. *August 16th, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 33. THIRTY-THIRD WEEK, SUNDAY, AUGUST 13TH, TO SATURDAY, AUGUST 19TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the Kingdom generally the conditions were again fine and bright, but thunderstorms occurred in a few scattered localities on the 13th, and again at some south-eastern stations on the 19th.

Temperature was much above the average, the excess amounting to more than 6° generally, and to nearly 8° in England S.W. In the north and east of Scotland, however, the difference from the normal was only about 2°. The highest of the maxima were 92° in England E. and the Midland Counties (at Tottenham and Raunds), 91° or 90° in the other English districts, 88° in Scotland W. and 83° in Ireland. In Scotland N. there was no higher reading than 77°. At most stations the highest values were recorded on the 13th, but at several places in the extreme north and north-east of Great Britain they occurred on the 17th. The lowest of the minima, most of which were registered about the middle of the week, ranged from 37° in Scotland E., and 39° in Scotland N. to 52° in Ireland S. and to 56° in the English Channel. The lowest grass readings were 32° at Llangammarch Wells, 33° at Crathes, and 34° at Balmoral.

Mean Temperature of the Sea. On nearly all coasts the water was considerably warmer than during the corresponding week of last year. The means for the week ranged from 71° at Margate, 68° at the Shipwash Lightship and Eastbourne, and 65° at Plymouth and Teelin, to 55° at Lerwick.

Rainfall was much less than the average. In nearly all the English districts there was less than 0·05 in. and at a considerable number of stations the week was again rainless. At Cromer on Saturday, however, the thunderstorm brought 0·6 in. and in some parts of London about 0·5 in. fell on the same day.

Bright Sunshine was in excess of the average except in Scotland E. The percentage of the possible duration ranged from 76 in England S E., 74 in the English Channel, and 70 in England N.W. to 36 in Scotland N. and 32 in Scotland E.

Barometer and Wind. Until after the middle of the week pressure was high in Iceland, and relatively high in the north of these islands, while it was lowest over northern Russia and Scandinavia. The main current of wind over this country was consequently between North-West and North-East, but as the gradient was slight it had little force. By Thursday, however, pressure had become highest in the south-east of England, and the adjacent part of the Continent, and the wind over the United Kingdom was either Southerly to Easterly, or variable. A shallow secondary depression which appeared over England on Friday had little effect on the weather, but at the end of the week a larger disturbance which extended over the country from the South-Westward caused a shift of wind to the Eastward, with local rains and thunderstorms.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 268.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Very light	Very light	Light	Very light	Nought	Very light	Very light	Very light	Very light	Very light	Light
	Sunshine ...	Abundant	Moderate	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 11 weeks from June 4th, 1911.	Warmth ...	5 * 2	6 * 2	8 * 2	8 * 2	8 * 2	8 * 2	6 * 2	7 * 2	8 * 2	7 * 2	7 * 1	8 * 1
	Rainfall ...	4 * 6	1 * 5	1 * 7	2 * 7	1 * 7	1 * 7	2 * 4	2 * 7	2 * 6	2 * 6	4 * 6	3 * 4
	Sunshine ...	6 * 2	5 * 3	8 * 2	8 * 2	8 * 2	8 * 2	5 * 4	8 * 3	9 * 2	6 * 3	6 * 2	8 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	THIRTY-THIRD WEEK—August 13th to August 19th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	77	39	64·6	50·9	57·3	+ 2·5	107	+ 18	0	0	2	− 3	0·23	−0·69	38	+ 11	36	+10
Eastern																		
1. SCOTLAND, EAST	80	37	66·6	50·0	57·8	+ 1·9	111	+ 13	0	0	3	− 1	0·12	−0·62	34	0	32	0
2. ENGLAND, N.E.	90	42	71·3	53·4	61·8	+ 3·8	139	+ 27	0	0	1	− 3	0·04	−0·54	48	+ 12	47	+11
3. ENGLAND, EAST	92	45	76·9	56·8	66·3	+ 6·3	170	+ 44	0	0	1	− 2	0·09	−0·46	66	+ 24	65	+23
4. MIDLAND COUNTIES	92	42	80·1	53·9	66·2	+ 7·1	169	+ 50	0	0	1	− 3	0·02	−0·57	65	+ 26	64	+26
5. ENGLAND, S.E.	91	44	79·0	56·8	67·3	+ 6·2	177	+ 43	0	0	0	− 3	0·00	−0·55	77	+ 32	76	+31
Western																		
6. SCOTLAND, WEST	88	45	73·6	53·7	63·1	+ 6·4	148	+ 45	0	0	1	− 4	0·05	−0·98	60	+ 24	57	+23
7. ENGLAND, N.W.	90	42	75·2	54·8	64·4	+ 6·1	157	+ 42	0	0	1	− 3	0·04	−0·76	72	+ 36	70	+35
8. ENGLAND, S.W.	91	45	77·6	57·8	67·1	+ 7·8	176	+ 54	0	0	1	− 3	0·01	−0·72	66	+ 23	65	+22
9 IRELAND, NORTH	83	47	72·2	55·5	63·4	+ 6·3	150	+ 45	0	0	1	− 4	0·15	−0·76	60	+ 29	58	+28
10. IRELAND, SOUTH	83	52	74·6	57·4	65·5	+ 7·1	165	+ 50	0	0	2	− 2	0·07	−0·90	55	+ 19	54	+18
11. ENGLISH CHANNEL	85	56	76·1	60·8	68·0	+ 6·3	182	+ 46	0	0	1	− 3	0·09	−0·51	74	+ 19	74	+19
	THE SEASON (Summer).—Aggregates, &c., for the Period of 11 Weeks, June 4th to August 19th, 1911.																	
0. SCOTLAND, NORTH	84	35	*	*	*	*	1024	+ 87	0	− 2	43	− 4	7·72	−0·74	419	+ 80	32	+ 6
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	1165	+111	5	+ 4	35	− 5	5·06	−1·79	511	+ 92	40	+ 7
2. ENGLAND, N.E.	96	32	*	*	*	*	1416	+230	0	0	27	− 8	5·17	−0·55	588	+124	47	+10
3. ENGLAND, EAST	97	34	*	*	*	*	1606	+274	0	0	24	− 9	3·25	−2·24	677	+164	55	+13
4. MIDLAND COUNTIES	98	32	*	*	*	*	1554	+259	0	0	22	−12	2·94	−2·82	611	+150	50	+12
5. ENGLAND, S.E.	96	32	*	*	*	*	1635	+236	0	0	18	−13	2·49	−2·72	745	+216	62	+18
Western																		
6. SCOTLAND, WEST	88	31	*	*	*	*	1253	+136	0	0	40	− 2	6·37	−2·43	552	+108	44	+ 9
7. ENGLAND, N.W.	90	34	*	*	*	*	1421	+194	0	0	32	− 6	5·51	−1·63	617	+157	49	+13
8. ENGLAND, S.W.	91	30	*	*	*	*	1544	+249	0	0	23	−14	4·18	−2·64	679	+177	56	+15
9. IRELAND, NORTH	86	31	*	*	*	*	1229	+100	0	0	37	−10	5·89	−2·12	483	+110	39	+ 9
10. IRELAND, SOUTH	88	36	*	*	*	*	1424	+175	0	0	36	− 4	6·73	−1·06	528	+108	43	+ 9
11. ENGLISH CHANNEL	86	46	*	*	*	*	1613	+213	0	0	23	−14	4·97	−0·48	751	+134	63	+11
	THE YEAR.—Aggregates, &c., for the Period of 33 Weeks, January 1st to August 19th, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	1569	+184	415	−142	134	−17	28·85	−0·45	959	+126	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1754	+169	492	−128	117	− 7	14·59	−3·52	1109	+122	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2101	+363	371	−104	96	−16	11·44	−2·76	1163	+ 97	38	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	2381	+358	409	−112	98	−10	11·07	−2·74	1330	+182	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	2345	+331	415	−118	82	−26	9·12	−6·35	1157	+129	38	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	2422	+256	361	− 20	82	−20	10·52	−4·30	1413	+253	47	+ 8
Western																		
6. SCOTLAND, WEST	86	18	*	*	*	*	1988	+279	347	− 78	117	−14	22·70	−3·92	1159	+143	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2166	+315	314	− 72	99	−20	15·90	−3·53	1243	+212	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	2321	+261	297	− 4	92	−25	15·64	−5·26	1345	+206	44	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	1959	+170	302	− 43	112	−30	16·39	−5·58	1111	+177	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	2320	+252	295	+ 36	120	− 6	18·62	−4·69	1171	+129	39	+ 4
11. ENGLISH CHANNEL	86	28	*	*	*	*	2543	+224	135	+ 26	99	−25	13·81	−3·56	1499	+119	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	60	13th	46	19th	57·1	48·9	52·8	—	76	0	3	0·10	—	32·1	—	29	—	Baltasound.
	a Lerwick	60	13th	49	17, 18, 19th	57·4	50·3	53·6	+ 1·4	81	0	0	0·00	—	38·9	+11·6	36	+11	Deerness.
	a Stornoway	66	17th	47	17th	63·3	52·3	57·5	+ 3·3	109	0	3	0·33	− 0·61	44·3	+14·0	41	+13	Stornoway.
	a Castlebay, Barra Isd.	75	13th	52	15th	66·7	55·9	61·0	+ 4·3	133	0	2	0·15	—	59·7	—	56	—	Castlebay.
	a Wick	62	18th	39	17th	58·6	49·3	53·7	− 0·6	82	0	3	0·18	− 0·47	*	*	*	*	*
	p Strathpeffer	74	17th	44	17th	67·0	50·2	58·1	+ 2·9	113	0	3	0·15	− 0·43	32·5	+ 4·9	31	+ 5	Strathpeffer.
— b, Mainland.	p Glencarron S	73	17th	45	16, 17, 18th	67·7	49·2	57·9	+ 4·4	111	0	3	0·32	− 1·30	*	*	*	*	*
	p Fort Augustus S	75	17th	43	17th	65·2	52·3	58·4	+ 2·8	115	0	2	0·33	− 0·47	36·7	+16·3	35	+15	Fort Augustus.
	p Fort William S	77	13th	45	17th	72·8	52·7	62·2	+ 6·2	141	0	1	0·28	− 1·12	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	71	17th	40	17th	65·7	48·9	56·8	+ 0·7	104	0	4	0·24	− 0·54	39·0	—	37	—	Gordon Castle.
	a Nairn	66	18th	39	17th	63·4	49·4	56·0	0·0	98	0	4	0·22	− 0·33	32·5	—	31	—	Nairn.
	a Aberdeen	68	17th	44	17th	63·1	51·4	56·9	+ 0·9	104	0	4	0·13	− 0·51	30·6	− 4·0	29	− 4	Aberdeen.
	a Balmoral S	80	13th	37	17th	68·0	45·0	55·8	+ 2·8	97	0	1	0·03	− 0·80	35·9	—	34	—	Crathes S.
	p Crieff S	77	17th	45	16th, 17th	71·6	51·9	61·2	+ 4·1	134	0	2	0·13	− 0·81	37·4	—	36	—	Balruddery.
	a Leith	76	17th	48	16th	66·4	54·1	59·9	+ 1·9	125	0	3	0·13	− 0·52	*	*	*	*	*
	p West Linton S	76	17th	37	16th	67·5	48·3	57·3	+ 2·6	107	0	3	0·05	—	35·1	—	33	—	West Linton.
	p Marchmont S	79	17th	44	17th	67·1	50·7	58·4	+ 2·8	115	0	0	0·00	− 0·77	35·0	+ 1·2	33	+ 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	77	17th	42	17th	67·6	52·9	59·8	+ 3·2	125	0	1	0·04	− 0·64	33·7	—	32	—	Cockle Park.
	a Shields	79	17th	45	17th	66·3	51·6	58·5	+ 1·1	116	0	1	0·01	− 0·60	26·6	− 3·4	26	− 3	Newcastle.
	p Durham	80	17th	43	17th	69·2	51·3	59·7	+ 2·1	124	0	1	0·01	− 0·55	30·3	− 3·6	29	− 4	Durham.
	p Rounton M	80	17th	42	17th	67·5	51·0	58·8	+ 1·7	118	0	1	0·06	− 0·57	*	*	*	*	*
	p Scarborough M	77	17th, 18th	49	17th	69·1	56·0	62·2	+ 4·0	141	0	1	0·02	− 0·61	39·0	—	38	—	Scarborough.
	p York	85	13th	44	17th	74·3	53·4	63·2	+ 4·4	148	0	0	0·00	− 0·58	48·6	+14·1	47	+14	York.
— b, South.	a Spurn Head	74	13th, 18th	54	16th, 17th	68·6	57·1	62·5	+ 3·3	144	0	1	0·03	− 0·42	*	*	*	*	*
	a Lincoln	87	13th	47	17th	77·9	54·0	65·2	+ 5·8	162	0	1	0·13	− 0·38	64·6	—	63	—	Skegness.
	a Fulbeck	90	13th	47	16th	81·2	53·0	66·3	+ 6·9	170	0	1	0·03	− 0·54	74·3	—	72	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	79	18th	52	17th	72·1	58·1	64·7	+ 5·3	159	0	2	0·61	—	63·6	—	62	—	Lowestoft.
	p Hillington M	88	13th	45	17th	77·8	54·5	65·5	+ 6·0	165	0	0	0·00	− 0·64	47·3	—	46	—	Cromer.
	a Yarmouth	81	18th	50	17th	71·3	59·3	64·9	+ 5·0	160	0	1	0·13	− 0·41	67·6	+26·7	66	+26	Hillington.
	a Norwich	86	13th	48	17th	76·2	57·1	66·1	+ 6·5	169	0	1	0·02	—	52·3	—	51	—	Yarmouth.
	p Geldeston	83	18th	47	17th	76·0	56·5	65·7	+ 6·3	166	0	1	0·01	− 0·50	*	*	*	*	*
	p Cambridge	92	13th	45	17th	80·7	54·8	67·0	+ 6·5	175	0	0	0·00	− 0·53	60·2	+16·4	59	+16	Geldeston.
— b, South.	a Felixstowe	84	18th	51	17th	74·0	58·3	65·7	+ 4·8	166	0	1	0·01	—	80·6	+37·6	79	+37	Cambridge.
	a Clacton-on-Sea	85	18th	51	17th	75·7	58·4	66·5	+ 5·5	172	0	0	0·00	—	75·7	—	74	—	Felixstowe.
	a Rothamsted	91	13th	47	17th	80·1	54·4	66·5	+ 7·3	172	0	0	0·00	—	73·3	—	72	—	Clacton.
	a Shoeburyness	83	18th	51	17th	75·7	58·6	66·6	+ 4·4	172	0	0	0·00	− 0·57	72·9	+29·1	72	+29	Rothamsted.
	p Tottenham	92	13th	52	16th	81·9	58·5	69·5	+ 8·6	193	0	0	0·00	− 0·39	76·0	—	75	—	Southend.
												1	0·06	—	76·1	—	75	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	80	13th, 17th	45	17th	72·7	52·3	61·9	+ 4·9	139	0	0	0·00	− 0·64	45·7	—	44	—	Harrogate.
	a Bawtry	88	13th, 14th	42	17th	79·1	50·3	63·8	+ 4·7	153	0	1	0·03	− 0·51	61·6	+28·0	60	+27	Worksop.
	p Buxton M	84	13th	42	17th	74·3	50·2	61·5	+ 5·6	137	0	0	0·00	− 1·01	66·8	—	65	—	Buxton.
	a Nottingham	89	13th	44	17th	79·0	52·6	65·0	+ 5·8	161	0	1	0·01	− 0·54	70·0	—	68	—	Nottingham.
	p Birmingham, Edgbsn	90	13th	51	17th	79·8	56·8	67·6	+ 9·2	179	0	2	0·04	− 0·58	56·2	—	55	—	Birmingham.
	a Raunds M	92	13th	44	17th	82·2	52·8	66·6	+ 7·0	172	0	0	0·00	—	*	*	*	*	*
	a Oxford	90	13th	49	17th	82·3	55·4	68·0	+ 7·8	182	0	0	0·00	− 0·53	72·7	+30·6	71	+30	Oxford.
— b, West.	a Cheadle M	87	13th	47	16th	78·0	55·6	66·1	+ 9·1	169	0	1	0·05	− 0·72	63·1	—	61	—	Sheffield.
	p Shrewsbury	91	13th	45	16th	81·3	53·1	66·4	+ 7·5	171	0	2	0·12	—	*	*	*	*	*
	a Hereford M	86	13th	46	16th	81·2	53·0	66·3	+ 6·9	170	0	0	0·00	− 0·55	*	*	*	*	*
	a Cirencester	90	13th	48	17th	82·4	54·9	67·8	+ 9·5	181	0	0	0·00	− 0·66	78·8	+37·4	77	+37	Cirencester.
	a Bath	92	13th	51	17th	82·9	56·0	68·6	+ 8·8	186	0	0	0·00	− 0·63	72·2	—	72	—	Bath.
5. ENGLAND, S.E.	p Kew	91	13th	52	16th	81·3	58·9	69·4	+ 8·6	192	0	1	0·01	− 0·51	71·5	—	71	—	Ramsgate.
	a Marlborough	89	13th	44	16th	82·5	49·6	65·1	+ 7·1	162	0	0	0·00	− 0·59	78·5	+35·5	78	+35	Kew.
	a Margate	79	18th	56	17th	74·1	61·7	67·5	+ 6·0	179	0	0	0·00	− 0·45	72·2	+31·9	72	+32	Marlborough.
	a Wisley, Surrey	90	13th	47	16th	81·8	54·4	67·3	+ 6·0	177	0	0	0·00	—	65·3	+21·8	65	+22	Margate.
	a Swarraton M	91	13th	47	16th, 17th	81·3	52·5	66·0	+ 6·9	168	0	0	0·00	− 0·61	77·8	—	77	—	Wisley.
	a Tunbridge Wells M	91	13th	49	16th	80·5	54·9	66·9	+ 7·0	174	0	0	0·00	− 0·50	84·2	—	83	—	Worthing.
	a Dungeness	81	13th	51	16th, 17th	72·6	57·3	64·5	+ 3·5	158	0	0	0·00	− 0·45	79·1	+34·7	78	+34	Tunbridge Wells.
	p Hastings	90	13th	53	16th	76·7	59·7	67·7	+ 6·7	189	0	0	0·00	− 0·54	78·2	—	77	—	Littlestone.
	p Southampton	89	14th	54	17th, 18th	81·9	58·4	69·5	+ 7·3	193	0	0	0·00	− 0·59	85·1	+36·7	84	+36	Hastings.
	a Ventnor	84	13th	57	16th	77·1	61·0	68·6	+ 6·6	186	0	0	0·00	− 0·47	79·1	+31·9	78	+32	Southampton.
															72·1	+25·5	71	+25	Ventnor.
															84·7	+37·3	84	+37	Eastbourne.
LONDON	a Westminster	90	13th	55	16th	82·1	60·3	70·6	+ 9·5	200	0	1	0·53	+ 0·01	75·1	+36·7	74	+36	Westminster.
	a Greenwich	91	13th	51	17th	84·1	57·4	70·0	+ 8·0	196	0	1	0·58	+ 0·09	75·3	+27·0	75	+27	Greenwich.
6. a, SCOTLAND. W.	a Poltalloch S	85	14th	50	16th	74·9	57·1	65·5	+ 8·7	165	0	1	0·05	− 1·02	*	*	*	*	*
	p Glasgow	75	17th	50	16th, 17th	70·2	54·3	61·8	+ 5·4	139	0	2	0·04	− 0·85	39·7	+ 9·7	38	+ 9	Glasgow.
	p Rothesay S	76	15th	50	17th	72·0	54·7	62·8	+ 6·1	146	0	1	0·12	− 0·98	*	*	*	*	*
	a Kilmarnock	78	13th	45	15th, 17th	74·3	50·7	61·8	+ 5·2	139	0	1	0·08	—	64·5	—	62	—	Kilmarnock.
	a Colmonell S	88	13th	46	16th, 17th	75·9	51·1	62·8	+ 5·8	146	0	1	0·07	− 0·87	*	*	*	*	*
	p Dumfries S	84	13th	46	16th	73·7	52·9	62·7	+ 5·1	145	0	0	0·00	− 0·88	63·8	—	61	—	Dumfries.
	p Cally, Gatehouse S	86	14th	46	16th	77·3	50·6	63·2	+ 7·1	148	0	0	0·00	− 1·07	*	*	*	*	*
— b, ISLE OF MAN	p Douglas	79	13th, 14th	53	19th	70·5	57·8	63·8	+ 7·1	153	0	0	0·00	− 0·93	79·8	+40·1	77	+39	Douglas.
															69·7	—	68	—	Hoylake.
															77·1	—	74	—	Aspatria.
7. a, ENGLAND, N.W.	p Aspatria	86	13th	46	16th	75·3	51·7	62·8	+ 6·1	146	0	0	0·00	− 1·00	78·3	+43·7	75	+42	Newton Rigg.
	p Newton Rigg	82	13th, 14th	42	16th	75·4	47·9	60·8	+ 4·9	132	0	0	0·00	− 0·78	65·0	+30·5	63	+30	Stonyhurst.
	p Stonyhurst	82	13th	47	16th	73·2	53·9	63·0	+ 5·7	147	0	1	0·02	− 1·06	78·7	+41·4	76	+40	Blackpool.
	p Blackpool M	85	13th	46	16th	73·7	54·4	63·5	+ 4·9	151	0	1	0·12	− 0·71	63·2	+32·0	61	+31	Prestwich.
	p M'nch'ster, Prestwich	87	13th	47	16th	77·3	54·2	65·1	+ 7·3	162	0	1	0·02	− 0·86	69·5	—	68	—	Liverpool.
	a Liverpool (Bidston)	87	13th	53	17th	74·9	57·9	65·9	+ 7·5	167	0	0	0·00	− 0·69	75·2	+36·1	73	+35	Southport.
	a Hawarden Bridge	89	13th	50	16th, 19th	78·0	55·8	66·2	+ 6·4	169	0	0	0·00	− 0·68	76·8	—	75	—	Rhyl.
— b, NORTH WALES	p Llandudno M	90	13th	55	19th	73·7	59·3	66·1	+ 6·8	169	0	2	0·18	− 0·47	73·1	+35·1	71	+34	Llandudno.
	a Holyhead	82	13th	57	16th, 19th	72·4	60·0	65·8	+ 6·9	167	0	3	0·07	− 0·63	70·3	—	69	—	Aberdovey.
	p Bettws-y-Coed	87	14th	45	19th	77·7	53·0	64·6	+ 5·7	158	0	0	0·00	—	63·8	—	62	—	Bettws-y-Coed.
															62·8	—	62	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	87	13th	45	16th	78·1	50·7	63·6	+ 6·5	151	0	1	0·05	—	60·6	—	59	—	Llangammarch Wells.
	a Pembroke	82	14th	54	19th	71·9	58·4	64·8	+ 6·1	160	0	1	0·01	− 0·64	65·4	+21·6	64	+21	Pembroke.
	p Cardiff	91	13th	53	19th	80·4	58·0	68·5	+ 8·2	186	0	0	0·00	− 0·97	70·8	—	70	—	Cardiff.
															67·7	+23·3	66	+23	Tenby.
— b, ENGLAND, S.W.	a Clifton	90	13th	56	16th, 19th	82·1	59·8	70·3	+ 9·6	198	0	0	0·00	− 0·79	70·8	—	70	—	Clifton.
	a Shaftesbury M	88	13th	52	16th	81·0	56·8	68·2	+ 9·5	183	0	0	0·00	− 0·68	*	*	*	*	*
	a Arlington	86	13th	50	17th	79·4	56·3	67·2	+ 9·5	176	0	1	0·06	− 1·05	63·7	+17·3	63	+17	Newquay.
	a Cullompton M	90	13th, 14th	51	17th	82·7	55·2	68·1	+ 8·7	183	0	0	0·00	− 0·68	63·8	+22·6	63	+22	Cullompton.
	a Portland Bill	78	14th	60	15th, 16th	73·0	61·6	67·0	+ 6·1	175	0	0	0·00	—	74·2	—	74	—	Weymouth.
	p Plymouth	83	14th	55	17th	75·1	59·6	66·9	+ 6·5	174	0	0	0·00	− 0·64	72·0	+27·4	71	+27	Plymouth.
	p Falmouth	74	13th, 14th	59	16th, 18th	71·8	61·3	66·2	+ 6·3	169	0	0	0·00	− 0·73	72·6	+24·2	72	+24	Falmouth.
															—	—	—	—	Salcombe.
															74·1	+26·5	73	+26	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	77	17th	54	16th	68·0	56·7	62·0	+ 5·5	140	0	3	0·06	− 0·74	*	*	*	*	*
	a Blacksod Point	78	14th	54	18th	70·6	59·1	64·5	+ 7·1	158	0	1	0·07	− 1·01	*	*	*	*	*
	p Markree Castle	82	13th, 14th	48	16th	76·0	54·4	64·6	+ 8·4	158	0	1	0·08	− 0·90	61·3	+32·1	59	+31	Markree Castle.
	a Birr Castle	83	14th	52	16th	76·9	54·9	65·2	+ 7·6	162	0	2	0·10	− 0·80	56·3	+23·9	55	+23	Birr Castle.
— b, East.	p Armagh	80	14th	47	16th	75·3	53·7	63·9	+ 7·1	153	0	1	0·57	− 0·30	59·5	+30·0	57	+29	Armagh.
	a Donaghadee	70	17th	51	16th, 17th	66·6	54·4	60·1	+ 2·8	127	0	0	0·00	− 0·79	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City	78	17th	55	16th, 17th	72·2	58·2	64·8	+ 5·5	160	0	1	0·01	− 0·74	56·7	+19·7	55	+19	Phœnix Park.
	a Kilkenny	82	15th	53	16th	75·3	56·4	65·3	+ 7·3	163	0	2	0·10	− 0·72	*	*	*	*	*
	a Waterford	81	14th	53	16th	75·1	58·1	66·1	+ 7·4	169	0	1	0·02	− 0·87	*	*	*	*	*
	a Birr Castle	83	14th	52	16th	76·9	54·9	65·2	+ 7·6	162	0	2	0·10	− 0·80	56·3	+23·9	55	+23	Birr Castle.
— b, West.	a Foynes	82	15th	55	19th	77·3	57·1	66·6	+ 8·2	172	0	1	0·01	− 0·90	*	*	*	*	*
	a Cahir M	81	15th	52	16th	75·9	55·4	65·0	+ 7·0	161	0	2	0·07	—	*	*	*	*	*
	a Killarney	83	15th	54	18th, 19th	77·8	58·4	67·5	+ 9·2	179	0	2	0·10	− 0·95	*	*	*	*	*
	a Valencia	79	15th	52	18th	71·1	58·6	64·5	+ 5·9	158	0	3	0·06	− 1·09	52·4	+17·7	51	+17	Valencia.
	a Roche's Point	74	14th	55	16th	70·1	59·1	64·3	+ 5·5	156	0	5	0·15	− 0·75	54·0	—	54	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	76	18th	60	13th, 16th	72·0	61·4	66·4	+ 5·7	171	0	2	0·28	− 0·28	64·7	+13·1	64	+13	Scilly.
	a Jersey, St. Aubins	85	14th	57	18th	79·9	61·7	70·3	+ 7·7	198	0	0	0·00	− 0·57	81·0	+26·0	81	+26	St. Heliers.
	a Guernsey	81	13th	56	17th	76·5	59·3	67·4	+ 5·7	178	0	0	0·00	− 0·60	75·5	+20·2	76	+20	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 88·9 hrs. (+39·6 hrs.), 88 % (+39 %); *Bournemouth*, 74·8 hrs., 74 %; *Bognor*, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	56·5	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	56·6
	Crathes	0	33	60·5	57·0
	Balmoral	0	34	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	41	60·3	—
2.	Cockle Park	0	41	61·5	59·1
	Durham	0	39	—	—
	York	—	—	63·6	60·0
	Hull	0	40	63·3	58·7
	Lincoln	—	—	65·3	60·1
	Rauceby	0	38	69·5	62·3
3.	Norwich	0	43	—	—
	Yarmouth	—	—	72·3	66·7
	Lowestoft	0	46	69·4	62·8
	Cambridge	0	41	69·7	64·5
	Clacton-on-Sea ..	0	43	66·9	62·7
	Southend	0	50	74·4	—
	Tottenham	0	47	—	66·8
4.	Harrogate	0	36	60·6	59·2
	Huddersfield ..	0	41	67·7	60·3
	Buxton	0	37	63·4	57·4
	Sheffield	0	42	63·9	58·6
	Nottingham.. ..	0	41	66·8	62·8
	Birmingham.. ..	0	42	63·4	56·9
	Oxford	0	—	—	—
	Hereford	0	37	—	—
	Cirencester	0	46	66·8	61·0
	Bath	—	—	69·0	64·6
5.	Margate	0	52	68·1	63·8
	Greenwich	0	41	—	—
	Westminster ..	0	?52	—	—
	Kew	0	40	69·0	61·3
	Canterbury	0	46	68·3	68·0
	Tunbridge Wells ..	0	44	67·8	—
	Wisley	0	46	69·6	64·8
	Worthing	0	51	70·7	64·4
	Portsmouth	0	49	72·7	66·2
6.	Glasgow	0	41	—	—
	Rothesay	—	—	—	57·0
	Colmonell	0	43	—	—
6.	Dumfries	0	36	64·4	61·3
	Douglas	0	49	—	—
7.	Aspatria	0	39	62·2	56·9
	Newton Rigg ..	0	36	63·1	58·3
	Burnley	0	36	62·7	58·2
	Southport	0	41	66·8	63·6
	Manchester City ..	0	48	66·5	63·0
	Bettws-y-Coed ..	0	43	62·1	58·0
8.	Llangammarch Wells	0	32	63·4	57·2
	Cardiff	0	46	68·5	62·7
	Clifton	0	50	—	—
	Plymouth	0	50	70·2	—
9.	Armagh	0	42	64·5	59·4
	Markree	0	42	64·4	58·3
10.	Dublin, Trin. Coll. ..	0	45	64·8	60·9
11.	Guernsey, Brooklyn	0	47	68·2	64·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	55	54	55·0
	Kirkwall	60	60	60·0
	Wick	56	55	55·6
SCOTLAND E.	Cromarty	60	56	58·1
	Pennan Bay	58	56	56·8
	Aberdeen, Cove Bay ..	56	56	56·0
ENGLAND, N.E.	Burnmouth, Berwick ..	56	55	55·7
	Scarborough	65	56	61·0
ENGLAND, E.	Shipwash Lightship ..	69	65	67·5
	Margate‡	72	70	70·7
ENGLAND, S.E.	Eastbourne‡	69	67	68·3
SCOTLAND, W.	Lamlash	64	58	60·5
	Ballantrae	64	57	59·8
ENGLAND, N.W.	Port Erin	62	58	59·1
ENGLAND, S.W.	Newquay	62	61	62·0
	Scilly	64	60	62·9
	Plymouth‡	65	65	64·7
	Salcombe	66	61	63·2
IRELAND, N.W.	Sheephaven	64	63	63·4
	Teelin	69	61	64·5
IRELAND, S.W.	Cleggan	64	57	60·5
	Seafield	65	57	61·2
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

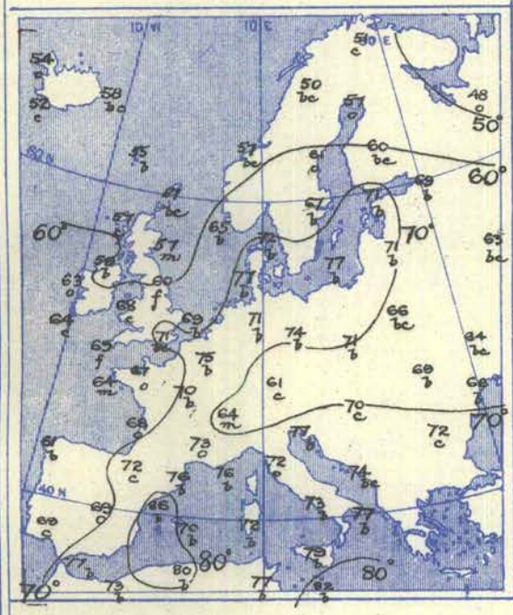
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 13th August, 1911.

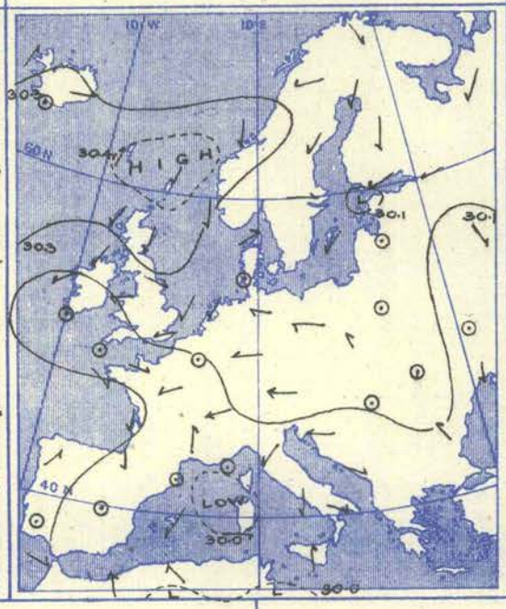
Temperature and Weather.

7 a.m.

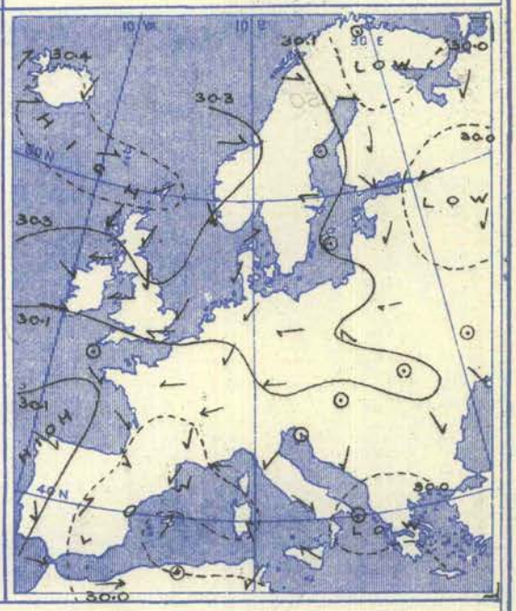


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very fine generally, but cloudy or overcast in northern Sweden, and also in Scotland, with rain at Leith. A little rain experienced in some parts of Scotland and Ireland later; 0·4 in. at Bodö, 0·7 in. at Karlstad, and 0·7 in. at Nice. As much as 1·0 in. measured at Helsingfors and 1·3 in. at Turin.

Temperature fallen in the north of Scandinavia, risen in these Islands and Denmark. Morning readings ranging from 79° at Palermo and 77° at Brindisi, Trieste, and Wisby to below 60° in Scotland, to 50° at Bodö, and to 48° at Archangel. Rising later to 90° in some parts of Wales and central and southern England, and to nearly 90° at many of our stations. Maxima 90° or rather higher over a wide area in central Europe and France, but below 80° in some Italian localities.

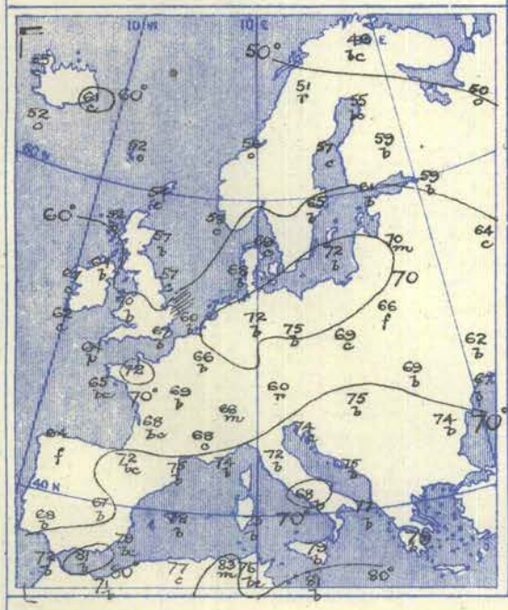
Wind in morning varying a good deal; mainly cyclonic except over Scotland and the Icelandic region. Light or moderate in force. No change of a general character during day, but increasing considerably from the Northward on the south-west coast of Norway.

Barometer in morning above 30·3 in. in a large anticyclone extending from the westward to the west coast of Norway; relatively low off the south-west of Ireland and over a wide area in southern Europe and on the Mediterranean. Pressure giving way briskly later over the north and north-east of the Continent; some large depressions appearing over Russia and northern Scandinavia, and a secondary system forming over the Skager Rack. Scarcely any change occurring over our Islands and the nearer regions of the Continent.

Monday, 14th August, 1911.

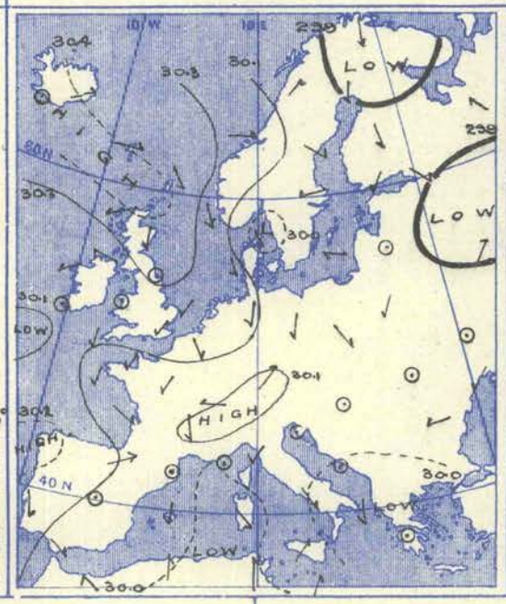
Temperature and Weather.

7 a.m.

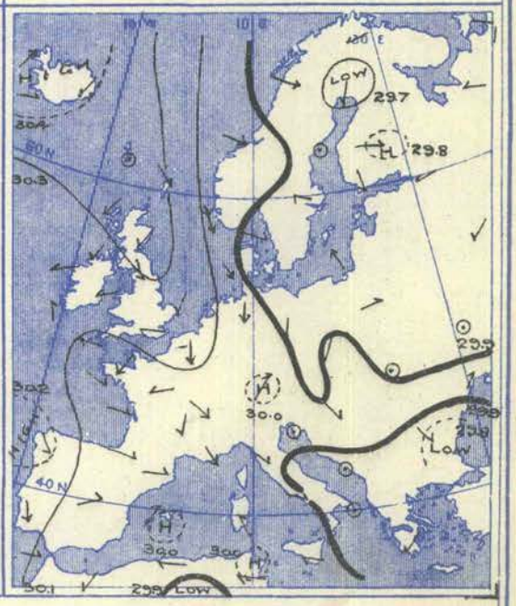


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine over the greater part of our area, but cloudy or overcast in some Scandinavian localities, with rain at Bodö and Karlstad. Rain also falling at Munich and the Scilly Isles. Heavy rain later over a wide area in Scandinavia, and moderate amounts at some Russian stations. Thunderstorms, without heavy rain, occurring in several parts of France.

Temperature fallen generally, rather decidedly over the north of our area. Readings in morning above 70° over most of Germany and the Mediterranean region, nearly 80° at some stations, and above 80° at Malaga and Malta, and 83° at Sfax and Cape de Garde. Rising to above 85° during day in some parts of England, and touching 90° at Southsea. Maxima about 90° over a large area in France and the central and southern countries; 95° at Paris and Le Mans. Thermometer remaining much lower in the north of our area.

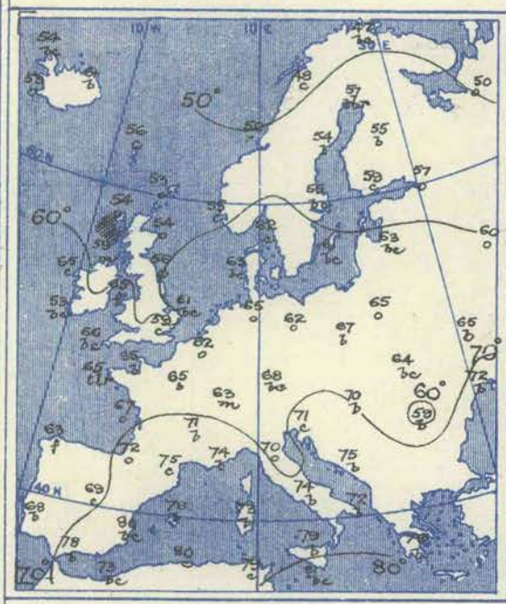
Wind in morning mainly anticyclonic over the United Kingdom, cyclonic beyond the North Sea, and variable in the southern regions. Little force generally, but Northerly current blowing strongly in the south of Scandinavia. Northerly wind increasing decidedly in strength later over the North Sea region, and blowing a gale at Skudesneas. No other change.

Barometer in morning above 30·4 in in a large anticyclone having its maximum over Iceland and in a band extending to Scotland; above 30·2 in. between Madeira and Portugal. Below 29·9 ins. in two large depressions over northern and north-eastern Europe, and below 30·0 in. in a secondary over the Skager Rack. Pressure continuing to decrease during day in the region of the depressions, and gradient growing steeper between these Islands and Scandinavia and Denmark. Barometer undergoing little change in the United Kingdom.

Tuesday, 15th August, 1911.

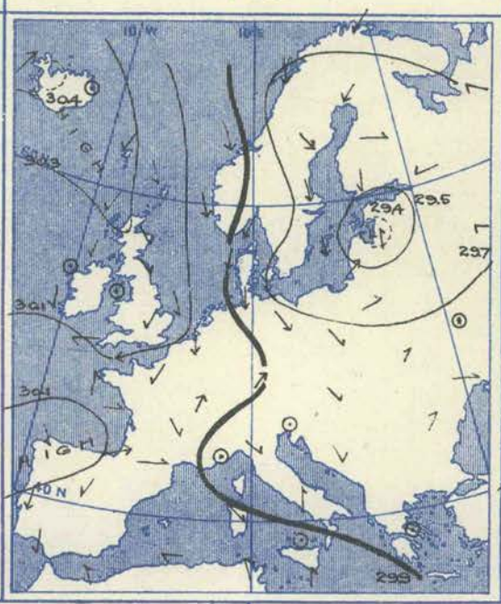
Temperature and Weather.

7 a.m.

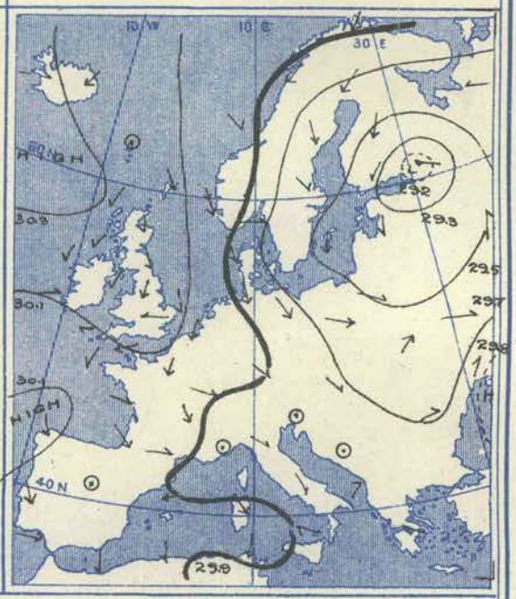


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine over the major portion of our area, but unsettled over the Baltic and Scandinavia, with rain at Christiansund and a thunderstorm at Haparanda. Thunderstorms later in several parts of France, and rain in Scandinavia, the north of Russia, North Germany, and in Austria-Hungary. Amount not large generally, but 1·6 in. measured at Swinemünde, and 0·6 in. at Wisby, Riga, and Trieste.

Temperature fallen in most regions. Morning readings about 80° at a few stations in the far south and nearly 70° in central Europe; below 60° in most parts of the United Kingdom, and below 50° in the extreme north of Norway. Maxima during day below 80° at nearly all our own stations, and below 70° in many parts of the Kingdom; between 80° and 90° over most of southern Europe, and slightly above 90° in places. Thermometer remaining below 75° over the greater part of Germany and the Netherlands. Night cool over these Islands; minimum readings below 50° at several stations.

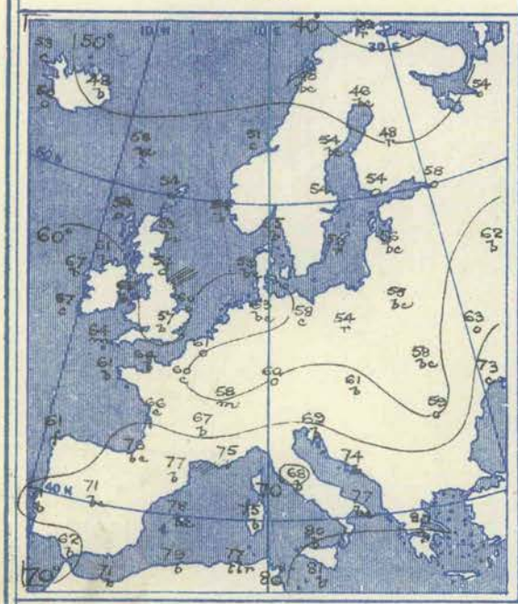
Wind in morning showing a vast cyclonic circulation affecting nearly the whole of the Continent. Northerly current strong over Scandinavia and the Baltic, and fresh in some parts of these Islands. Increasing to a gale in Norway by evening, and continuing strong in the north of Europe generally.

Barometer in morning above 30·3 in. in an anticylone extending from Iceland to Scotland, and relatively high over the whole of these Islands, as well as between Madeira and Portugal. Below 29·4 in. in a very large depression centred over the Gulf of Riga. Depression increasing in intensity during day, but little change occurring in the general distribution of pressure. Centre of system moving in a north-easterly direction.

Wednesday, 16th August, 1911.

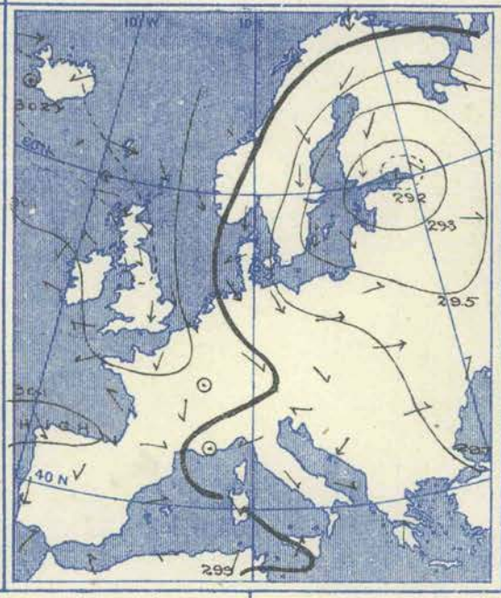
Temperature and Weather.

7 a.m.

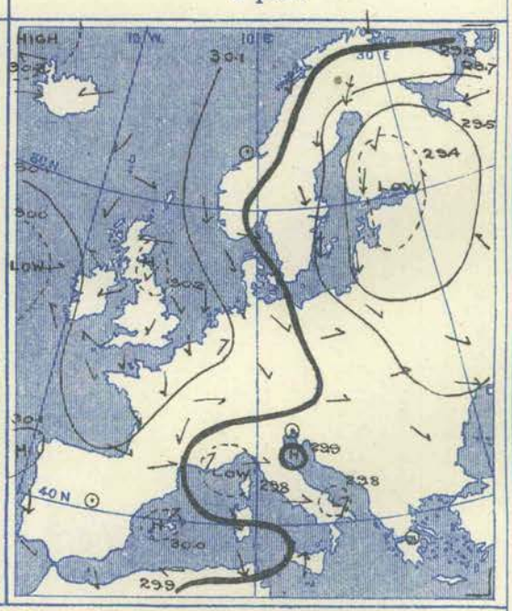


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning unsettled over northern Europe, with cloud in some places, and rain in others. Generally fair to bright elsewhere, but a thunderstorm prevailing at Cape de Garde. Rain experienced in places over a vast area on the Continent during day; more than 1·0 in. at Memel and Odessa, and 2·6 in. at Trieste. Conditions remaining dry in these Islands and France.

Temperature again fallen generally over northern and central Europe. Morning readings ranging from 88° at Barcelona, and about 80° at a few other stations in the south, to about 60° in Germany and the south of England, to about 50° over a large area in the north of the Continent, and to 39° at Vardö. Rising later to about 90° at some extreme southern stations, but failing to touch 70° at several places in central Europe and the United Kingdom. Minimum in night below 40° in the north-east of Scotland.

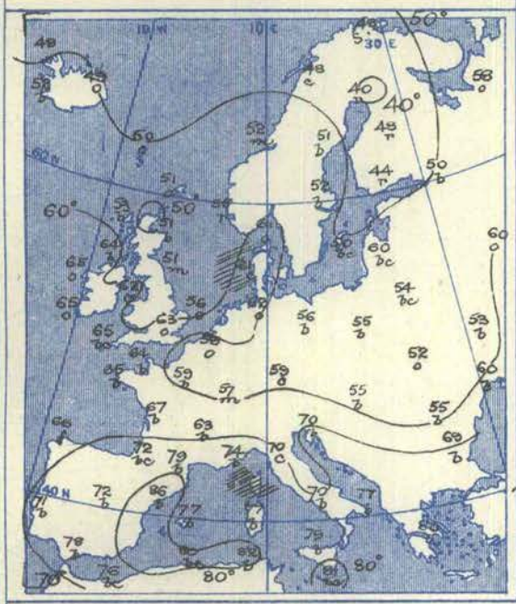
Wind in morning mainly anticyclonic over these Islands and France, cyclonic elsewhere. Northerly current strong over northern Europe generally, and still blowing a gale in many parts of Scandinavia. No change of importance taking place later in day.

Barometer in morning above 30·1 in. in a large high pressure area extending over this country and France from the northward; below 29·8 in. in a depression of little intensity centred over Corsica, and below 29·2 in. in a large disturbance having its minimum over the Gulf of Finland. Gradient steep over the Gulf of Bothnia and the Baltic. Little modification occurring later in the general situation, but barometer rising somewhat within the region of lowest pressure.

Thursday, 17th August, 1911.

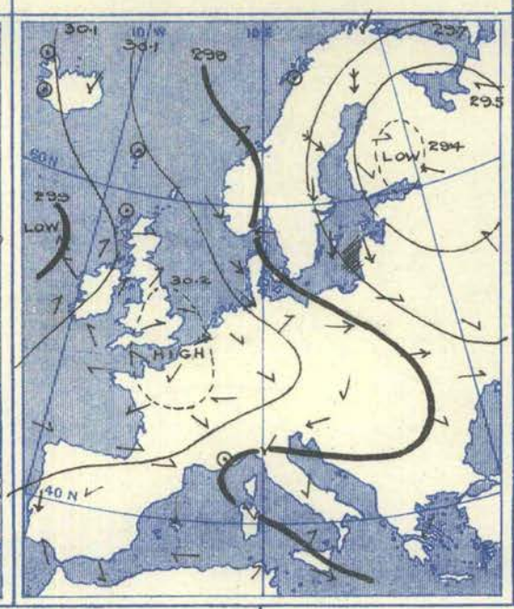
Temperature and Weather.

7 a.m.

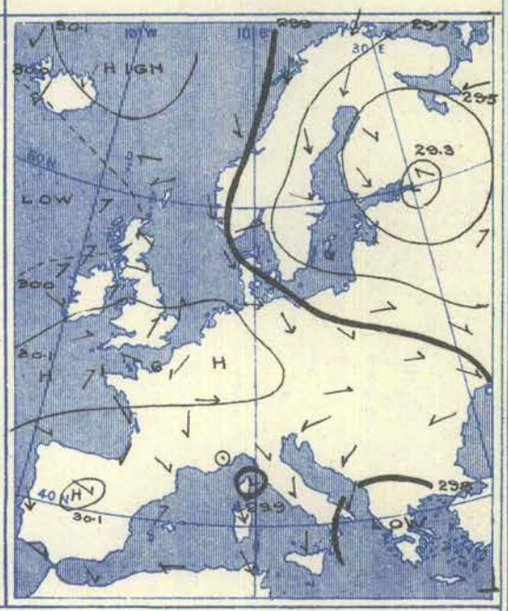


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very bright over our area generally, but unsettled in Scandinavia and Finland, with rain in a few localities, and snow at Vardö. Slight rain later in the west and north of these Islands, and heavier amounts in Russia, some parts of North Germany, and at Rome and Athens.

Temperature fallen over the greater part of our area. Readings in morning ranging from about 80° at a few stations in the extreme south of our area to below 60° over northern and many parts of central Europe, and to below 50° in the north of Scotland and the north of the Continent. Maxima during day above 80° at various places in the south of England, about 90° at a few stations in France, Italy, and the Spanish Peninsula, and little below 100° in Algeria. Thermometer remaining below 70° in several parts of central Europe.

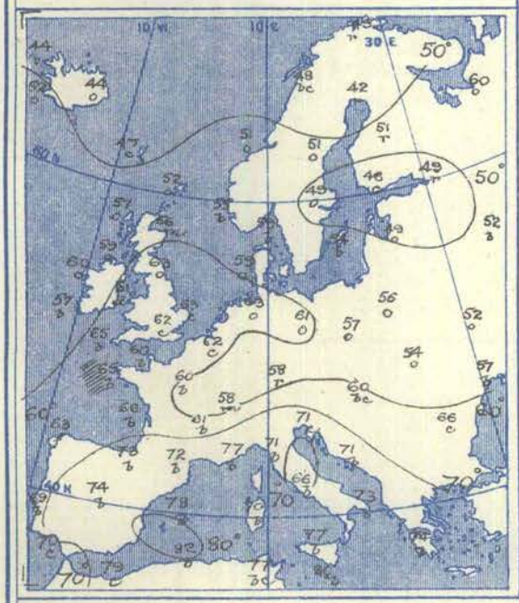
Wind in morning showing a cyclonic circulation affecting all the more northern regions of the Continent. Northerly current strong to a gale over Scandinavia. Light anticyclonic airs prevailing over England and France. Very little change later in day; becoming high from the North-Westward at Berlin, but decreasing in force in Scandinavia.

Barometer in morning above 30·2 in. in a high pressure system having its maximum over or near the Straits of Dover. Below 29·4 in. in a very extensive depression centred over Finland, and relatively low over the south and south-east of Europe, as well as to the westward of Ireland. General distribution remaining similar throughout day, but a shallow disturbance beginning to encroach on the north-west of these Islands.

Friday, 18th August, 1911.

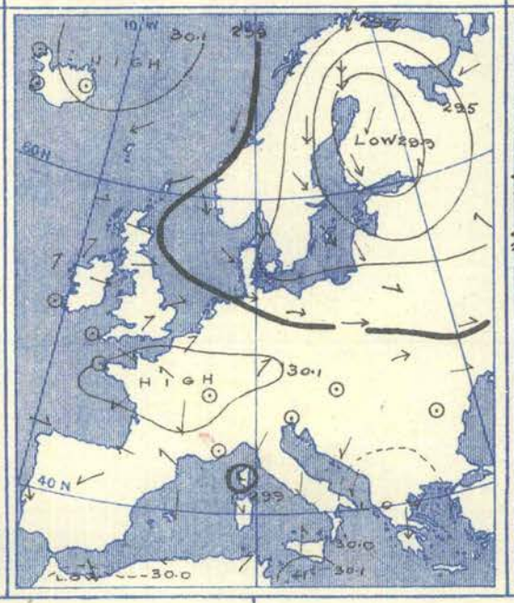
Temperature and Weather.

7 a.m.

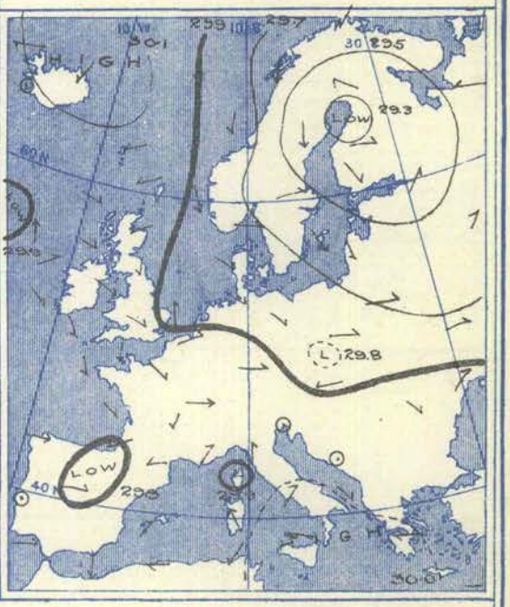


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine over the greater portion of the Continent, but rainy at Munich and also over a wide area in Finland and its vicinity. Cloudy or overcast in several parts of these Islands, with rain at Wick and Holyhead. Rain experienced later, generally moderate in amount, in several places in Germany and northern Europe, with a thunderstorm at Neu-Fahrwasser. Slight rain falling at a few stations in the United Kingdom.

Temperature risen in nearly all parts of this country. Morning readings ranging from below 50° at some stations in the extreme north of Europe and about 60° over a large area in central Europe and in these Islands to about 80° at some stations on the shores of the Mediterranean. Rising to between 80° and 85° during day in many English localities, to about 90° in some parts of France, Italy, and the Spanish Peninsula. Maxima below 75° over a large portion of central Europe, and generally below 70° in the west and north of these Islands.

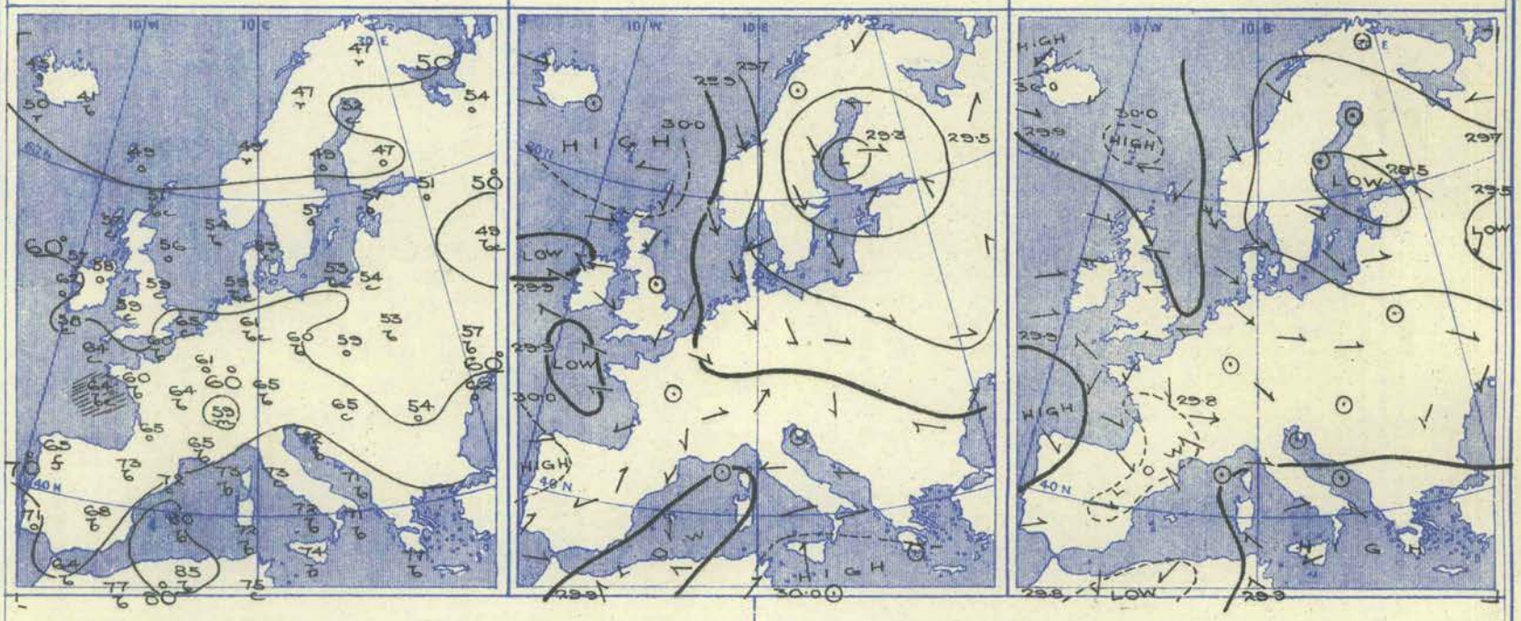
Wind in morning mainly anticyclonic over France, and cyclonic over our area as a whole. Northerly current fresh to strong over Scandinavia and Germany; a gale at Haparanda. Chiefly between North and North-West in the United Kingdom, but of little force. No change of importance later in day.

Barometer in morning above 30·1 in. over France and South Germany, and also in the east of Iceland; below 29·9 in. in a depression centred over Corsica, and below 29·3 in. in a very large disturbance having its minimum over Finland. Anticyclone decreasing greatly in intensity during day, but cyclonic system maintaining its position with scarcely any modification. A shallow low pressure forming over the Spanish Peninsula.

Saturday, 19th August, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning generally fair to very bright over all the central and southern regions, cloudy or overcast, with rain in a few places, over the northern countries of the Continent, and overcast in the north-west and north of these Islands, with rain at Wick. Thunderstorms later in some parts of England and France, with considerable rain locally, and heavy rain over a large area in Finland and northern Russia.

Temperature fallen or changed irregularly. Morning readings ranging from between 75° and 85° over a large area in the south to 60° in North Germany and the south of England, and to below 50° in the far north of Norway. Maxima during day about 80° at some stations in the south of England, but below 70° in the Western and Northern districts. Thermometer rising to 96° at Lyons, to 90° or slightly higher in several other parts of France and at Madrid. Readings much lower in Germany and Austria-Hungary.

Wind in morning showing a well-marked cyclonic circulation over the northern countries of the Continent. Northerly to North-Westerly current moderate to strong over Scandinavia and the Baltic, but little force elsewhere. Light breezes from various quarters prevalent in the South and West of our area. Increasing to a gale by evening from North to North-West at Skudesnaes, but decreasing in force over Scandinavia as a whole. A feeble cyclonic circulation setting in over France.

Barometer in morning below 29·3 in. in a large depression having its centre over the Gulf of Bothnia and its steepest gradients on its western side. Above 30·0 in. to the northward of Scotland and also in the South-East of our area, and below 29·9 in. in a shallow depression to the westward and south-westward of Ireland. Pressure decreasing decidedly during day in France and slowly over the United Kingdom. Northern depression becoming rather less deep and moving a little to the South-Eastward.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). See also p. 260.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	August 13th, noon to 12.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	302° 50% 140°, 6·7							301° 47% 120°, ? } 300	Clear sky, with few light detached clouds. Insufficient wind to raise Meteorograph above 300 m.
2	August 18th, 2.0 p.m. to 3.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	194·6° 86% 230°, 6·7	? ° 86% 250°, ?						291·3° 75% 290°, ? } 655	Sky covered with thin film of Cirro Stratus. Wind very erratic up to 100 m. very steady above. Wind rate decreasing rapidly with altitude.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites	1	1
Area of Surface (sq. metres) ..	7	7
Capacity of Balloon (cub. metres) ..	—	—
Length of Wire (metres)	800	1,200

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 34. THIRTY-FOURTH WEEK, SUNDAY, AUGUST 20TH, TO SATURDAY, AUGUST 26TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was of an unsettled type over the whole Kingdom. Rain or passing showers occurred on several days, and thunderstorms were experienced in almost all parts of the country. The latter were, however, most common in England, especially on the 20th, when they were general over a very large area.

Temperature was still above the average, the excess ranging from about 1° in the north and east of Scotland to about 4° in several English districts. The highest of the maxima were registered on the 20th at most stations. In England S.E. the thermometer touched 86°, and in England E. and the Midland Counties 85°, while elsewhere the figure varied from 82° in England N.E., and 81° in England S.W. to 72° and 71° respectively in Scotland E. and N. The lowest of the minima were recorded on rather irregular dates, mostly during the latter half of the week. In Scotland E. the reading was as low as 35°, in Ireland N. 36°, and in England N.W. 39°, but in England E. it was 50°, and in the English Channel 51°. The lowest grass readings reported were 30° at Markree Castle, 32° at Balmoral and Llangammarch Wells, 33° at Crathes, and 35° at Aspatria.

Mean Temperature of the Sea. At all stations except Lerwick the water was warmer than during the corresponding week of last year, the difference being more than 4° in several places. The means for the week ranged from 68·5° at Margate, 67·6° at Eastbourne, and 67° at the Shipwash to about 55° at Berwick and Lerwick.

Rainfall varied greatly in different localities, but was as a rule less than the normal, the only district having a large excess being England N.E. Many stations in England experienced more than an inch as the result of one day's fall. At Newcastle on Tyne 1·31 in. fell on the 21st, and at Hereford and Portsmouth the fall on the same day was 1·40 in. At the south coast station an inch fell in half an hour. Some other places reported more than an inch on the 21st, and at Scarborough and Huddersfield a similar amount was measured on the 20th.

Bright Sunshine was below the normal in the eastern and northern parts of Britain, but above it elsewhere. The greatest divergence from the average was −14 hours in Scotland E. The percentage of the possible duration ranged from 49 in the English Channel, 45 in Ireland S., and 43 in England S W., to 19 in Scotland E. and to 17 in Scotland N.

Barometer and Wind. During the earlier half of the week the cyclonic systems, which were of little intensity, lay over France and the southern counties of England, while the main flow of air over these islands was from north and north-east. Later the pressure distribution underwent an entire change, depressions of considerable size and depth encroaching on the western and northern parts of the United Kingdom as they travelled in a general north-easterly direction on the Atlantic. The wind consequently became Southerly or South-Westerly throughout these islands and increased somewhat in force. On various parts of the western and north-western coasts it occasionally blew a fresh to strong breeze.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 268.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Moderate	Light	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Abundant	Moderate	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 12 weeks from June 4th, 1911.	Warmth ...	5 * 2	6 * 2	9 * 2	9 * 2	9 * 2	9 * 2	7 * 2	8 * 2	9 * 2	8 * 2	8 * 1	9 * 1
	Rainfall ...	4 * 6	1 * 6	2 * 7	2 * 7	1 * 7	1 * 7	2 * 4	2 * 7	2 * 6	2 * 6	4 * 7	3 * 4
	Sunshine ...	6 * 3	5 * 4	8 * 3	8 * 3	8 * 3	8 * 2	5 * 4	9 * 3	9 * 2	7 * 3	7 * 2	8 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9918/450 Wy. & S., Ltd. 8–11.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	THIRTY-FOURTH WEEK—August 20th to August 26th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	71	41	61·0	50·0	55·2	+ 0·8	92	+ 5	0	0	4	0	1·05	+0·05	17	- 9	17	- 9
Eastern																		
1. SCOTLAND, EAST	72	35	63·7	50·0	56·4	+ 0·8	101	+ 6	0	0	4	0	0·29	-0·46	20	- 14	19	-14
2. ENGLAND, N.E.	82	42	67·1	54·8	60·6	+ 3·1	130	+ 21	0	0	5	+ 1	1·12	+0·50	26	- 10	26	-10
3. ENGLAND, EAST	85	50	71·1	56·8	63·5	+ 4·1	151	+ 29	0	0	4	0	0·51	-0·05	30	- 11	30	-12
4. MIDLAND COUNTIES	85	48	70·6	54·8	62·2	+ 3·8	141	+ 26	0	0	4	+ 1	0·76	+0·11	27	- 10	28	-10
5. ENGLAND, S.E.	86	45	72·0	57·3	64·2	+ 3·6	155	+ 25	0	0	4	0	0·64	+0·01	36	- 7	37	- 8
Western																		
6. SCOTLAND, WEST	73	43	66·0	51·7	58·4	+ 2·1	115	+ 15	0	0	4	0	0·70	-0·39	34	+ 1	34	+ 1
7. ENGLAND, N.W.	79	39	67·9	55·2	61·2	+ 3·3	134	+ 23	0	0	5	+ 1	0·61	-0·28	38	+ 4	38	+ 4
8. ENGLAND, S.W.	81	44	70·9	56·2	63·1	+ 4·2	148	+ 29	0	0	4	0	0·79	-0·07	42	+ 1	43	+ 1
9 IRELAND, NORTH	72	36	65·6	52·1	58·5	+ 2·0	116	+ 14	0	0	4	- 1	0·75	-0·19	39	+ 9	39	+ 9
10. IRELAND, SOUTH	74	46	68·4	54·2	60·9	+ 3·0	132	+ 20	0	0	4	- 1	0·48	-0·50	44	+ 10	45	+10
11. ENGLISH CHANNEL	79	51	71·6	59·4	65·1	+ 3·7	162	+ 26	0	0	3	- 1	0·31	-0·34	48	- 3	49	- 3
	THE SEASON (Summer).—Aggregates, &c., for the Period of 12 Weeks, June 4th to August 26th, 1911.																	
0. SCOTLAND, NORTH	84	35	*	*	*	*	1116	+ 92	0	- 2	47	- 4	8·77	-0·69	436	+ 71	31	+ 5
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	1266	+117	5	+ 4	39	- 5	5·35	-2·25	531	+ 78	38	+ 6
2. ENGLAND, N.E.	96	32	*	*	*	*	1546	+251	0	0	32	- 7	6·29	-0·05	614	+115	46	+ 9
3. ENGLAND, EAST	97	34	*	*	*	*	1757	+303	0	0	28	- 9	3·76	-2·29	707	+153	53	+12
4. MIDLAND COUNTIES	98	32	*	*	*	*	1695	+285	0	0	26	-11	3·70	-2·71	638	+140	48	+11
5. ENGLAND, S.E.	96	32	*	*	*	*	1790	+261	0	0	22	-13	3·13	-2·71	781	+208	60	+16
Western																		
6. SCOTLAND, WEST	88	31	*	*	*	*	1368	+151	0	0	44	- 2	7·07	-2·82	586	+109	43	+ 8
7. ENGLAND, N.W.	90	34	*	*	*	*	1555	+217	0	0	37	- 5	6·12	-1·91	655	+161	49	+12
8. ENGLAND, S.W.	91	30	*	*	*	*	1692	+278	0	0	27	-14	4·97	-2·71	721	+178	55	+14
9. IRELAND, NORTH	86	31	*	*	*	*	1345	+114	0	0	41	-11	6·64	-2·31	522	+119	39	+ 9
10. IRELAND, SOUTH	88	36	*	*	*	*	1556	+195	0	0	40	- 5	7·21	-1·56	572	+118	43	+ 9
11. ENGLISH CHANNEL	86	46	*	*	*	*	1775	+239	0	0	26	-15	5·28	-0·82	799	+132	62	+10
	THE YEAR.—Aggregates, &c., for the Period of 34 Weeks, January 1st to August 26th, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	1661	+189	415	-142	138	-17	29·90	-0·40	976	+116	30	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1855	+175	492	-128	121	- 7	14·88	-3·98	1129	+109	35	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	2231	+384	371	-104	101	-15	12·56	-2·26	1189	+ 88	38	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	2532	+387	409	-112	102	-10	11·58	-2·79	1360	+171	43	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	2486	+357	415	-118	86	-25	9·88	-6·24	1184	+119	38	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	2577	+281	361	- 20	86	-20	11·16	-4·29	1449	+245	46	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2103	+294	347	- 78	121	-14	23·40	-4·31	1193	+143	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2300	+338	314	- 72	104	-19	16·51	-3·81	1281	+215	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	2469	+290	297	- 4	96	-25	16·43	-5·33	1337	+207	44	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2075	+184	302	- 43	116	-31	17·14	-5·77	1150	+186	37	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	2452	+272	295	+ 36	124	- 7	19·10	-5·19	1215	+139	39	+ 5
11. ENGLISH CHANNEL	86	28	*	*	*	*	2705	+250	135	+ 26	102	-26	14·12	-3·99	1547	+116	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values' shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*61*	*25th*	*43*	*22nd, 23rd*	*57·7*	*48·0*	*52·6*	—	*74*	*0*	*5*	*1·09*	—	*25·4*	—	*24*	—	*Baltasound.*
	a Lerwick	60	24th	44	23rd	57·6	48·1	52·6	+ 0·5	74	0	4	1·51	—	15·0	−11·5	14	−11	Deerness.
	a Stornoway	65	20th	43	24th	60·6	49·3	54·6	+ 0·8	88	0	4	1·09	+ 0·13	20·5	− 9·1	20	− 9	Stornoway.
	a Castlebay, Barra Isd.	*63*	*20th, 21st*	*49*	*23rd*	*60·6*	*52·3*	*56·2*	*− 0·1*	*99*	*0*	*4*	*0·88*	—	*42·5*	—	*42*	—	*Castlebay.*
	a Wick	62	25th, 26th	41	23rd	58·9	48·3	53·3	− 0·7	79	0	4	0·49	− 0·15	*	*	*	*	
	p Strathpeffer.. ..	64	21st	49	23rd, 24th	61·5	51·9	56·4	+ 1·6	101	0	4	0·46	− 0·12	11·7	−15·6	11	−15	Strathpeffer.
	p Glencarron .. S	65	21st	43	24th	61·1	50·3	55·4	+ 2·1	94	0	3	1·27	− 0·43	*	*	*	*	
	p Fort Augustus S	66	23rd	43	24th	62·3	51·2	56·4	+ 1·1	101	0	4	1·08	+ 0·26	20·8	+ 0·5	20	+ 1	Fort Augustus.
	p Fort William S	71	20th	45	24th	65·1	51·2	57·7	+ 2·2	110	0	3	1·48	+ 0·04	*	*	*	*	
0. SCOTLAND, N. — b, Mainland.	*p* Gordon Castle S	67	26th	46	23rd, 24th	63·1	49·6	56·0	+ 0·4	98	0	4	0·17	− 0·56	*18·0*	—	*18*	—	*Gordon Castle.*
	a Nairn	64	22, 25, 26th	42	24th	62·7	48·6	55·2	− 0·2	92	0	6	0·35	− 0·20	14·5	—	14	—	Nairn.
	a Aberdeen	69	25th	45	24th	62·6	51·9	56·9	+ 1·2	104	0	3	0·20	− 0·43	18·7	−15·0	18	−15	Aberdeen.
	a Balmoral .. S	64	24th	35	24th	61·7	46·7	53·8	+ 1·3	83	0	2	0·20	− 0·61	12·8	—	13	—	Crathes S.
1. SCOTLAND, E.	*a* Crieff .. .. S	72	20th	47	24th	64·6	50·7	57·2	+ 0·7	106	0	6	0·75	− 0·18	21·2	—	21	—	Balruddery.
	a Leith	67	20, 23, 25th	51	24th	65·7	54·6	59·8	+ 2·1	125	0	4	0·21	− 0·41	*	*	*	*	
	p West Linton.. S	70	20th	41	24th	63·3	47·7	55·0	+ 0·8	91	0	4	0·30	—	*27·9*	—	*28*	—	*West Linton.*
	p Marchmont .. S	70	20th	45	23rd	65·9	50·3	57·6	+ 2·8	109	0	3	0·15	− 0·60	30·1	− 2·5	30	− 3	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	69	25th	42	23rd	64·8	51·5	57·8	+ 1·7	111	0	6	1·39	+ 0·71	30·3	—	30	—	Cockle Park.
	a Shields	69	25th	47	23rd, 24th	65·0	51·9	58·1	+ 1·1	113	0	5	1·85	+ 1·26	*20·0*	− *8·8*	*20*	− *9*	*Newcastle.*
	p Durham	73	20th	46	23rd	65·2	52·6	58·5	+ 1·4	116	0	5	1·04	+ 0·49	28·8	− 3·8	29	− 4	Durham.
	p Rounton .. M	74	20th	50	23rd	66·4	54·1	59·9	+ 3·4	125	0	4	1·99	+ 1·41	*	*	*	*	
	p Scarborough.. M	72	26th	54	23rd	66·3	55·9	60·8	+ 3·0	132	0	5	1·93	+ 1·33	28·4	—	28	—	Scarborough.
	p York	76	20th	54	24th, 26th	68·7	56·3	62·1	+ 3·9	141	0	4	0·65	+ 0·09	15·7	−17·3	16	−17	York.
2. ENGLAND, N.E. — b, South.	*a* Spurn Head	72	25th, 26th	56	23rd	68·3	58·1	62·9	+ 4·0	146	0	3	0·31	− 0·14	*	*	*	*	
	a Lincoln	82	20th	52	26th	70·3	55·8	62·6	+ 3·5	144	0	4	0·30	− 0·20	28·1	—	28	—	Skegness.
	a Fulbeck	82	20th	54	23, 24, 26th	69·1	56·6	62·5	+ 3·5	144	0	5	0·65	+ 0·09	22·5	—	23	—	Rauceby.
															39·2	—	*40*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	76	25th	53	26th	70·7	56·2	63·0	+ 4·5	147	0	7	0·27	—	24·4	—	25	—	Cromer.
	p Hillington .. M	81	20th	51	26th	72·3	55·5	63·4	+ 4·5	150	0	7	0·74	+ 0·11	28·8	−10·4	29	−11	Hillington.
	a Yarmouth	75	26th	53	26th	69·1	58·7	63·6	+ 4·2	151	0	3	0·39	− 0·14	34·8	—	35	—	Yarmouth.
	a Norwich	77	20th	52	26th	71·2	56·5	63·4	+ 3·8	150	0	6	0·50	—	*	*	*	*	
	p Geldeston	75	26th	50	24th	70·8	55·1	62·5	+ 3·5	144	0	3	0·36	− 0·14	29·4	−12·9	30	−13	Geldeston.
	p Cambridge	85	20th	52	26th	71·7	56·6	63·7	+ 3·7	152	0	3	0·52	0·00	31·1	−10·3	31	−10	Cambridge.
3. ENGLAND, E. — b, South.	*a Felixstowe*	*74*	*26th*	*54*	*23rd*	*69·6*	*59·8*	*64·4*	*+ 3·9*	*157*	*0*	*5*	*0·90*	—	*37·5*	—	*38*	—	*Felixstowe.*
	a Clacton-on-Sea ..	75	26th	55	23rd	70·6	59·1	64·5	+ 3·8	158	0	4	0·53	—	35·0	—	35	—	Clacton.
	a Rothamsted ..	81	20th	50	26th	70·7	55·6	62·7	+ 4·1	145	0	5	0·74	+ 0·17	27·4	−14·0	28	−14	Rothamsted.
	a Shoeburyness ..	*74*	*24th*	*55*	*23rd*	*70·6*	*60·0*	*65·0*	*+ 3·3*	*161*	*0*	*4*	*1·40*	*+ 1·01*	*38·9*	—	*39*	—	*Southend.*
	p Tottenham	82	20th	54	23rd	73·0	57·7	64·9	+ 4·7	160	0	2	0·52	—	27·0	—	27	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	73	20th	52	23rd, 24th	66·0	54·6	60·0	+ 3·5	126	0	4	1·57	+ 0·94	24·1	—	24	—	Harrogate.
	a Bawtry	80	20th	48	24, 25, 26th	69·9	53·6	61·3	+ 2·9	135	0	4	0·58	+ 0·06	24·9	− 7·5	25	− 8	Worksop.
	p Buxton .. M	*75*	*20th*	*47*	*23rd*	*65·6*	*53·4*	*59·1*	*+ 3·8*	*120*	*0*	*4*	*0·76*	*− 0·24*	*21·4*	—	*21*	—	*Buxton.*
	a Nottingham ..	82	20th	51	26th	70·1	55.7	62·5	+ 3·9	144	0	3	0·84	+ 0·30	28·4	—	29	—	Nottingham.
	p Birmingham, Edgbsn	81	20th	53	23rd, 26th	69·9	55·7	62·4	+ 4·2	143	0	5	0·55	− 0·06	22·9	—	23	—	Birmingham.
	a Raunds .. M	85	20th	50	26th	72·7	55·3	63·5	+ 4·7	151	0	5	1·57	—	*	*	*	*	
	a Oxford	83	20th	54	26th	71·3	56·9	63·7	+ 4·1	152	0	6	0·37	− 0·13	30·8	− 9·8	31	−10	Oxford.
4. MIDLAND COUNTIES. — b, West.	*a* Cheadle .. M	77	20th	50	23rd	68·8	53·5	60·7	+ 4·2	131	0	3	0·39	− 0·37	26·6	—	27	—	Sheffield.
	p Shrewsbury	79	20th	50	23rd	71·6	55·1	62·9	+ 4·5	146	0	3	0·58	—	*	*	*	*	
	a Hereford .. M	79	20th	51	20th, 26th	71·0	53·5	61·7	+ 2·8	138	0	2	1·51	+ 0·96	*	*	*	*	
	a Cirencester	81	20th	49	26th	71.6	53·6	62·1	+ 4·4	141	0	3	0·21	− 0·44	27·5	−12·2	28	−12	Cirencester.
	a Bath	82	20th	50	23rd	73·6	54·9	63·7	+ 4·4	152	0	3	0·21	− 0·40	32·4	—	33	—	Bath.
															43·3	—	*44*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	84	20th	53	26th	72·7	56·9	64·3	+ 4·3	156	0	3	0·46	− 0·06	29·8	−11·5	30	−12	Kew.
	a Marlborough ..	82	20th	45	26th	72·2	51·6	61·3	+ 3·9	135	0	3	0·25	− 0·35	26·4	−12·7	27	−13	Marlborough.
	a Margate	77	20th	57	26th	73·3	60·8	66·7	+ 5·5	173	0	4	0·86	+ 0·41	37·4	− 4·3	38	− 4	Margate.
	a Wisley, Surrey ..	8	20th	52	23rd	73·3	56·3	64·2	+ 3·5	156	0	3	0·28	—	32·9	—	33	—	Wisley.
	a Swarraton .. M	82	20th	47	26th	71·5	53·6	62·0	+ 3·5	140	0	6	0·55	− 0·07	34·9	—	36	—	Worthing.
	a Tunbridge Wells M	84	20th	53	24th, 26th	72·4	55·3	63·3	+ 4·1	149	0	4	0·66	+ 0·15	39·2	− 3·9	40	− 4	Tunbridge Wells.
	a Dungeness	73	20th	57	23rd	70·3	60·7	65·2	+ 4·4	162	0	4	0·59	+ 0·14	44·2	—	45	—	Littlestone.
	p Hastings	80	20th	56	23rd	71·5	59·4	65·1	+ 4·4	162	0	4	2·20	+ 1·66	*40·6*	− *6·0*	*41*	− *6*	*Hastings.*
	p Southampton ..	80	20th	53	23th	72·5	57·4	64·5	+ 3·1	158	0	3	0·37	− 0·22	32·5	−13·1	33	−13	Southampton.
	a Ventnor	73	20th	56	23rd	70·6	60·9	65·5	+ 3·8	165	0	4	0·22	− 0·28	36·1	−10·1	37	−10	Ventnor.
															47·1	+ 1·8	48	+ 2	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*81*	*20th*	*56*	*25th, 26th*	*70·7*	*59·3*	*64·7*	*+ 4·1*	*159*	*0*	*2*	*0·36*	*− 0·16*	*27·6*	− *9·1*	*28*	− *9*	*Westminster.*
	a Greenwich	*82*	*20th*	*53*	*25th, 26th*	*74·6*	*56·3*	*64·9*	*+ 3·8*	*160*	*0*	*4*	*0·30*	*− 0·17*	*29·7*	*−15·5*	*30*	*−16*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*a* Poltalloch .. S	70	21st	43	22nd	66·6	49·6	57·6	+ 1·2	109	0	5	1·60	− 0·10	*	*	*	*	
	p Glasgow	69	20th	49	23rd	64·7	53·5	58·8	+ 3·0	118	0	4	0·35	− 0·57	26·5	− 2·5	26	− 3	Glasgow.
	p Rothesay .. S	72	21st	46	23rd	65·4	52·0	58·3	+ 2·1	114	0	5	1·31	+ 0·22	*	*	*	*	
	a Kilmarnock	71	20th, 21st	45	20th	65·9	50·0	57·5	+ 1·6	109	0	3	0·69	—	*32·8*	—	*33*	—	*Kilmarnock.*
	a Colmonell .. S	72	21st	46	23rd	67·3	50·7	58·5	+ 1·7	116	0	3	0·65	− 0·32	*	*	*	*	
	p Dumfries .. S	73	20, 21, 22nd	43	23rd	68·1	51·3	59·2	+ 1·8	120	0	4	0·33	− 0·55	*36·1*	—	*36*	—	*Dumfries.*
	p Cally, Gatehouse S					—	—	—	—						*	*	*	*	
6. — b, ISLE OF MAN ..	*p* Douglas	68	20th	52	23rd	64·1	54·5	59·0	+ 2·7	119	0	5	0·62	− 0·33	42·0	+ 3·5	42	+ 4	Douglas.
															38·4	—	38	—	Hoylake.
7. — a, ENGLAND, N.W...	*p* Aspatria	73	20th	43	23rd	66·3	52·5	59·0	+ 2·5	119	0	5	0·25	− 0·74	33·5	—	33	—	Aspatria.
	p Newton Rigg ..	74	20th	39	23rd	65·5	50·5	57·6	+ 2·3	109	0	6	0·50	− 0·29	24·4	− 9·0	24	− 9	Newton Rigg.
	p Stonyhurst	75	20th	42	23rd	68·1	55·8	61·6	+ 4·9	137	0	4	0·71	− 0·38	30·2	− 3·2	30	− 3	Stonyhurst.
	p Blackpool .. M	73	20th	48	23rd	68·6	56·6	62·2	+ 4·2	141	0	4	0·37	− 0·47	44·1	+ 8·4	44	+ 8	Blackpool.
	p M'nch'ster, Prestwich	79	20th	50	23rd	70·0	55·5	62·3	+ 4·8	142	0	4	0·94	+ 0·06	*21·5*	− *8·5*	*22*	− *9*	*Prestwich.*
	a Liverpool (Bidston)	71	20th	54	23rd, 25th	68·7	56·6	62·3	+ 4·6	142	0	4	0·71	+ 0·02	*34·3*	—	*34*	—	*Liverpool.*
	a Hawarden Bridge ..	78	20th	50	23rd	70·2	56·4	62·9	+ 3·6	146	0	3	0·77	+ 0·11	*41·3*	+ *3·7*	*41*	+ *4*	*Southport.*
															45·3	—	*45*	—	*Rhyl.*
7. — b, NORTH WALES ..	*p* Llandudno .. M	69	20, 23, 24th	55	23rd	67·6	57·8	62·4	+ 3·3	143	0	5	0·52	− 0·13	53·1	+16·4	53	+16	Llandudno.
	a Holyhead	66	20,21,24,25,26	56	24th, 25th	65·1	57·0	60·8	+ 2·2	132	0	4	0·27	− 0·43	46·4	—	47	—	Aberdovey.
	p Bettws-y-Coed ..	75	20th	49	23rd	68·9	52·9	60·4	+ 2·0	129	0	6	1·04	—	37·2	—	38	—	Bettws-y-Coed.
															47·9	—	48	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	75	20th	44	23rd	69·0	51·2	59·6	+ 2·9	123	0	6	1·43	—	31·4	—	32	—	Llangammarch Wells.
	a Pembroke	72	21st	55	23rd	68·4	57·3	62·5	+ 4·2	144	0	4	0·67	0·00	55·1	+12·6	56	+13	Pembroke.
	p Cardiff	77	20th	52	20, 23, 24th	71·3	55·0	62·7	+ 3·0	145	0	3	0·59	− 0·37	*37·0*	—	*37*	—	*Cardiff.*
															42·2	− *0·8*	*43*	− *1*	*Tenby.*
8. — b, ENGLAND, S.W. ..	*a* Clifton	79	20th	54	23rd	73·0	58·6	65·4	+ 5·2	164	0	3	0·18	− 0·61	*34·2*	—	*35*	—	*Clifton.*
	a Shaftesbury .. M	79	20th	51	23rd	70·5	55·2	62·4	+ 4·2	143	0	4	1·12	+ 0·44	*	*	*	*	
	a Arlington	81	20th	49	23rd	71·3	53·7	62·0	+ 4·7	140	0	6	1·30	+ 0·17	50·7	+ 5·2	52	+ 5	Newquay.
	a Cullompton .. M	77	20th	49	23rd	73·9	53·2	62·9	+ 4·1	146	0	5	0·53	− 0·14	30·6	−10·1	31	−10	Cullompton.
	a Portland Bill ..	75	25th	55	23rd	70·3	60·1	64·9	+ 4·2	160	0	4	0·86	—	*38·3*	—	*39*	—	*Weymouth.*
	p Plymouth	74	20th	54	26th	71·4	57·4	64·0	+ 3·9	154	0	4	0·70	+ 0·06	37·0	− 6·7	38	− 7	Plymouth.
	p Falmouth	72	21st	58	23, 25, 26th	70·3	59·8	64·7	+ 5·2	159	0	3	0·50	− 0·24	43·8	− 3·2	45	− 3	Falmouth.
															43·7	—	*45*	—	*Salcombe.*
															38·5	− *7·5*	*39*	− *8*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	67	24th	52	20th	62·9	54·0	58·2	+ 1·9	113	0	4	0·57	− 0·21	*	*	*	*	
	a Blacksod Point ..	65	20th, 26th	44	23rd	63·7	53·9	58·5	+ 1·5	116	0	3	0·61	− 0·49	*	*	*	*	
	p Markree Castle ..	70	21st	36	23rd	67·1	48·7	57·4	+ 1·6	108	0	5	1·30	+ 0·31	39·2	+10·7	39	+11	Markree Castle.
	a Birr Castle	72	21st	46	23rd	68·3	52·3	59·8	+ 2·7	125	0	4	0·62	− 0·27	*40·0*	+ *7·9*	*40*	+ *8*	*Birr Castle.*
9. IRELAND, N. — b, East.	*p* Armagh	69	20th, 21st	43	23rd	67·1	50·9	58·5	+ 2·2	116	0	4	0·42	− 0·43	37·9	+ 8·9	38	+ 9	Armagh.
	a Donaghadee	68	25th	45	23rd	64·7	52·6	58·3	+ 1·5	114	0	3	0·98	+ 0·21	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	69	20th, 26th	54	25th	67·8	56·2	61·7	+ 2·9	138	0	3	0·19	− 0·55	34·0	− 2·4	34	− 2	Phœnix Park.
	a Kilkenny	71	21st	50	25th	68·1	53·6	60·4	+ 3·0	129	0	5	0·68	− 0·13	*	*	*	*	
	a Waterford	72	20th	52	23rd, 25th	69·3	54·0	61·2	+ 3·1	134	0	3	0·55	− 0·33	*	*	*	*	
10. IRELAND, S. — b, West.	*a* Birr Castle	72	21st	46	23rd	68·3	52·3	59·8	+ 2·7	125	0	4	0·62	− 0·27	40·0	+ 7·9	40	+ 8	Birr Castle.
	a Foynes	71	21st	49	23rd	66·9	54·4	60·3	+ 2·4	128	0	4	0·27	− 0·62	*	*	*	*	
	a Cahir .. .. M	73	21st	48	23rd	69·6	53·1	60·9	+ 3·4	132	0	3	0·47	—	*	*	*	*	
	a Killarney	74	23rd	48	23rd	71·2	54·4	62·3	+ 4·4	142	0	3	0·24	− 0·82	*	*	*	*	
	a Valencia	68	20th	48	23rd	66·0	53·9	59·6	+ 1·4	123	0	4	0·70	− 0·44	52·3	+18·3	53	+19	Valencia.
	a Roche's Point ..	73	21st	53	22nd	68·1	56·3	61·9	+ 3·4	139	0	4	0·62	− 0·28	49·9	—	51	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	72	21st, 23rd	57	25th	68·3	59·0	63·4	+ 3·0	150	0	4	0·63	+ 0·06	34·5	−15·9	35	−16	Scilly.
	a Jersey, St. Aubins ..	77	20th	56	24th	73·4	61·0	66·8	+ 4·4	174	0	2	0·10	− 0·50	52·8	− 0·6	54	− 1	St. Heliers.
	a Guernsey	79	20th	51	25th	73·1	58·1	65·2	+ 3·8	162	0	3	0·19	− 0·46	55·7	+ 2·5	57	+ 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 38·7 hrs. (−8·9 hrs.), 40 % (−9 %); Bournemouth, 37·3 hrs., 33 %; Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	54·8	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	56·1
	Crathes	0	33	58·3	57·0
	Balmoral	0	32	—	—
	West Linton	—	—	—	—
	Marchmont ..	0	41	58·1	—
2.	Cockle Park	0	41	59·2	58·4
	Durham	0	43	—	—
	York	—	—	62·1	59·9
	Hull	0	48	61·7	59·0
	Lincoln	—	—	63·5	60·2
	Rauceby	0	? 46	? 65·8	? 62·6
3.	Norwich	0	48	—	—
	Yarmouth	0	0	67·6	66·1
	Lowestoft	0	49	66·2	62·7
	Cambridge	0	45	67·2	64·6
	Clacton-on-Sea ..	0	51	65·1	62·4
	Southend	0	52	72·4	—
	Tottenham	0	49	—	67·3
4.	Harrogate	0	47	59·8	58·8
	Huddersfield ..	0	50	64·7	60·8
	Buxton	0	43	61·4	57·7
	Sheffield	0	47	61·8	58·8
	Nottingham	0	47	63·9	62·9
	Birmingham	0	43	60·3	57·1
	Oxford	0	—	—	—
	Hereford	0	40	—	—
	Cirencester	0	44	63·9	61·2
	Bath	—	—	—	—
5.	Margate	0	54	66·5	64·3
	Greenwich	0	43	—	—
	Westminster ..	0	50	—	—
	Kew	0	42	66·0	61·6
	Canterbury	0	47	67·0	67·5
	Tunbridge Wells ..	0	47	66·1	—
	Wisley	0	42	66·5	64·7
	Worthing	0	51	67·5	64·6
	Portsmouth	0	51	68·9	66·2
6.	Glasgow	0	41	—	—
	Rothesay	—	—	—	57·0
	Colmonell	0	42	—	—
6.	Dumfries	0	36	62·4	61·7
	Douglas	0	50	—	—
7.	Aspatria	0	35	60·0	57·0
	Newton Rigg ..	0	36	61·3	58·4
	Burnley	0	45	59·6	58·2
	Southport	0	41	64·7	63·3
	Manchester City ..	0	48	65·6	63·3
	Bettws-y-Coed ..	0	49	60·7	58·0
8.	Llangammarch Wells	0	32	61·2	57·7
	Cardiff	0	43	65·5	63·2
	Clifton	0	48	—	—
	Plymouth	0	46	67·3	—
9.	Armagh	0	38	62·4	60·0
	Markree	1	30	61·8	58·7
10.	Dublin, Trin. Coll. ..	0	48	63·3	61·0
11.	Guernsey, Brooklyn	0	44	67·5	64·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	55	54	54·9
	Kirkwall	60	56	57·2
	Wick	57	55	55·5
SCOTLAND E.	Cromarty	60	58	59·2
	Pennan Bay	58	55	56·2
	Aberdeen, Cove Bay ..	56	56	56·0
ENGLAND, N.E.	Burnmouth, Berwick ..	56	54	54·8
	Scarborough	62	57	58·7
ENGLAND, E.	Shipwash Lightship ..	69	65	67·0
	Margate‡	71	68	68·5
ENGLAND, S.E.	Eastbourne‡	68	67	67·6
SCOTLAND, W.	Lamlash	63	57	59·8
	Ballantrae	63	56	59·6
ENGLAND, N.W.	Port Erin	62	58	59·7
ENGLAND, S.W.	Newquay	62	62	62·0
	Scilly	64	59	62·3
	Plymouth‡	65	64	64·1
	Salcombe	66	61	62·7
IRELAND, N.W.	Sheephaven	63	60	62·2
	Teelin	64	58	61·6
IRELAND, S.W.	Cleggan	64	57	59·5
	Seafield	67	57	61·2
IRELAND, E. ..	.. ..	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR JULY, 1911.

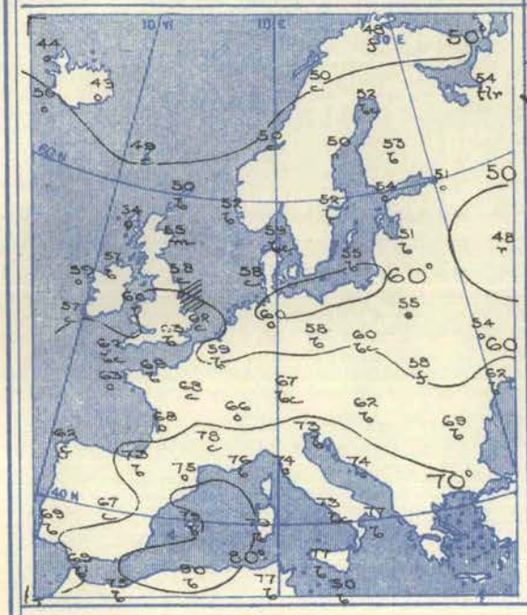
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 28, p. 226	1. Scotland, E.	—	—	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 29, p. 234	6. Scotland, W. ..	—	—	46	—	—	53·3	57·9	+ 0·5	111	—	—	—	—	—	—	—	—
Station Values.— Additions.																		
No. 26, p. 211	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	31·0	—	26	—
No. 27, p. 219	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	25·0	—	21	—
No. 27, p. 219	Buxton	78	6, 7	44	2nd	69·3	52·8	60·5	+ 4·1	130	0	1	0·07	- 0·72	68·6	—	59	—
No. 28, p. 227	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	92·7	—	84	—
No. 28, p. 227	Margate	71	12th	54	11, 15	68·0	56·2	61·7	+ 0·2	138	0	0	0·00	- 0·44	81·8	+36·8	72	+33
No. 29, p. 235	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	34·9	—	30	—
No. 29, p. 235	Buxton	83	21st	50	16th	68·8	54·4	61·1	+ 4·2	124	0	·4	0·18	- 0·67	34·9	—	31	—
No. 30, p. 243	Norwich	85	28th	50	24th	78·8	57·9	67·6	+ 7·0	179	0	5	0·66	—	—	—	—	—
No. 31, p. 251	Norwich	85	31, 1	55	4th	80·6	58·8	68·9	+ 8·5	188	0	1	0·15	--	—	—	—	—
Station Values.— Corrections.																		
No. 26, p. 211	Douglas	—	—	—	—	57·4	—	52·1	- 4·0	71	—	—	—	—	—	—	—	—
No. 27, p. 219	Durham	—	—	—	—	—	50·4	60·2	+ 3·0	127	—	—	—	—	44·9	+5 4	38	+5
No. 27, p. 219	Llandudno	—	—	—	—	—	53·7	61·1	+ 2·5	134	—	—	—	—	—	—	—	—
No. 27, p. 219	Plymouth	—	—	—	—	—	—	—	—	—	—	0	0·00	- 0·57	—	—	—	—
No. 28, p. 227	Oxford	—	—	—	—	—	50·9	63·5	+ 2·7	151	—	—	—	—	—	—	—	—
No. 28, p. 227	Ventnor	—	—	—	—	—	56·9	66·3	+ 4·9	170	—	—	—	—	—	—	—	—
No. 28, p. 227	Bettws-y-Coed	—	—	—	—	78·9	—	63·4	+ 4·5	150	—	—	—	—	—	—	—	—
No. 28, p. 227	Valencia	—	—	—	—	—	—	—	—	—	—	—	—	—	104·3	+67·9	92	+60
No. 29, p. 235	Durham	—	—	—	16, 18, 19, 22	—	53·5	60·5	+ 1·7	130	—	—	—	—	—	—	—	—
No. 29, p. 235	Cheadle .. .. (M)	—	—	—	—	71·4	—	62·7	+ 4·4	145	—	—	—	—	—	—	—	—
No. 29, p. 235	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	78·1	—	70	—
No. 29, p. 235	Poltalloch	—	—	46	—	—	51·1	55·6	- 1·9	95	—	—	—	—	—	—	—	—
No. 29, p. 235	Aspatria	—	—	—	—	64·6	—	59·5	+ 2·7	123	—	—	—	—	—	—	—	—
No. 29, p. 235	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	0·47	- 0·40	—	—	—	—
No. 29, p. 235	Llandudno	—	—	—	—	—	—	—	—	—	—	—	—	—	29·2	- 12·5	26	- 11
No. 29, p. 235	Llangammarch Wells..	—	—	—	—	—	52·8	61·0	+ 2·9	133	—	—	—	—	—	—	—	—
No. 30, p. 243	Cheadle .. .. (M)	—	—	—	—	—	53·7	65·5	+ 7·3	165	—	—	—	—	—	—	—	—
No. 30, p. 243	Hereford .. .. (M)	87	—	—	—	77·8	54·4	—	—	—	—	—	—	—	—	—	—	—
No. 30, p. 243	Blackpool	—	—	—	—	—	—	—	—	—	—	—	0·01	- 0·66	—	—	—	—
No. 31, p. 251	Cambridge	83	1st	—	—	79·4	—	67·1	+ 6·1	176	—	—	—	—	—	—	—	—
No. 31, p. 251	Cheadle .. .. (M)	—	—	—	—	74·6	—	65·0	+ 7·3	161	—	—	—	—	—	—	—	—

Station Values.— Additions.		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot	Mean Earth Temp. At 4 feet.
No. 27, p. 220	Buxton	—	40	58·3	52·2
No. 28, p. 228	Portsmouth	0	44	69·4	61·5
No. 29, p. 236	Buxton	0	42	61·3	54·8
No. 29, p. 236	Bath	0	—	67·6	62·0

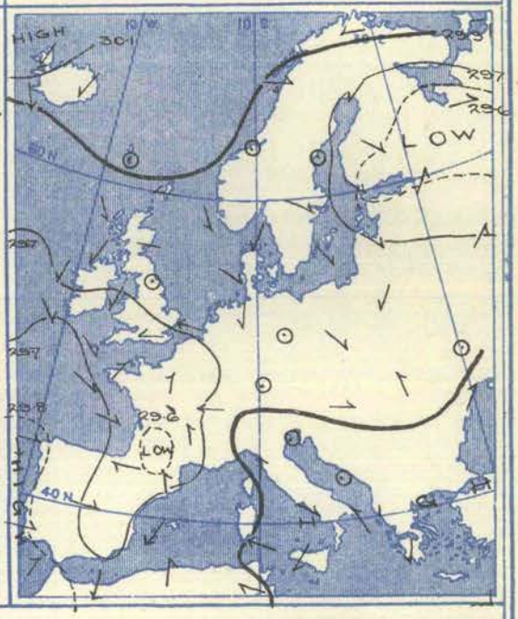
Sunday, 20th August, 1911.

Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.

Barometer and Wind. — 6 p.m.



Weather in morning fair to fine and bright over the major part of our area, but cloudy or overcast at some of our own stations and in Holland, with rain in a few localities. Rain also prevailing at Moscow and a thunderstorm at Archangel. Thunderstorms later over a large area in England and France, with heavy rain in several localities. Rain also experienced in Switzerland, Belgium and Russia, and as much as 0·8 in. at Pesaro.

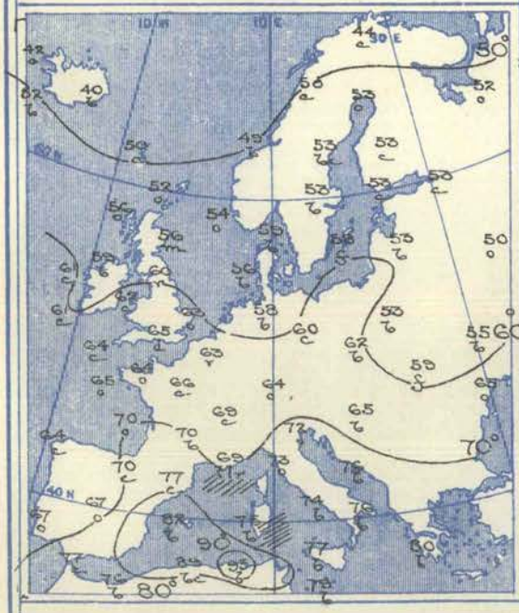
Temperature changed irregularly over these Islands, risen in France. Readings in morning above 70° over a large area in southern Europe and on the Mediterranean, and as high as 90° at Algiers. Below 60° in the north of the United Kingdom and in nearly all places over the northern half of the Continent; below 50° at Moscow and Vardö. Rising to 80° or above in the south of England later, but failing to touch 70° in most northern districts, and only rising to 57° at Aberdeen. Maxima about 90° in various parts of France, Italy and the Spanish Peninsula; below 70° in some German localities.

Wind in morning variable in direction and light in force in these Islands; light to fresh from the North-Westward over the Scandinavian region, and light or moderate from various quarters elsewhere. Increasing in force from East or North-East by evening in the east and south-east of England and from the Southward at Toulouse.

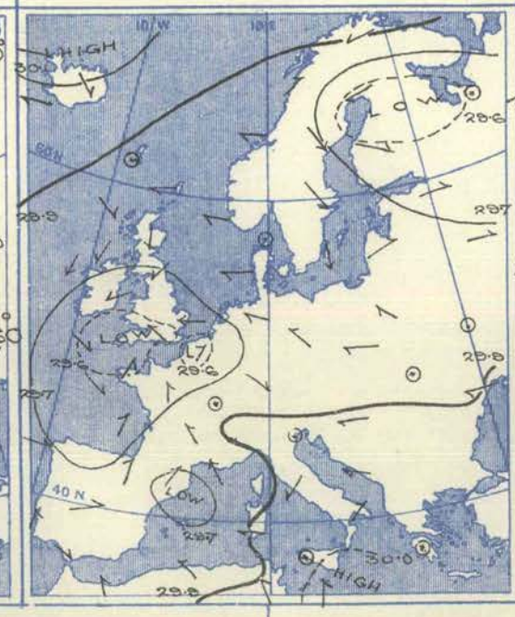
Barometer in morning below 29·7 in. in a large depression of little intensity over Russia, and relatively low over the United Kingdom and the adjacent portion of the Continent. Pressure below 30·1 in. in all parts of our area except the Azores, and gradient very slight generally. Not much change in the general distribution of pressure occurring during day, but barometer falling over these Islands and France; local thunderstorm irregularities developing.

Monday, 21st August, 1911.

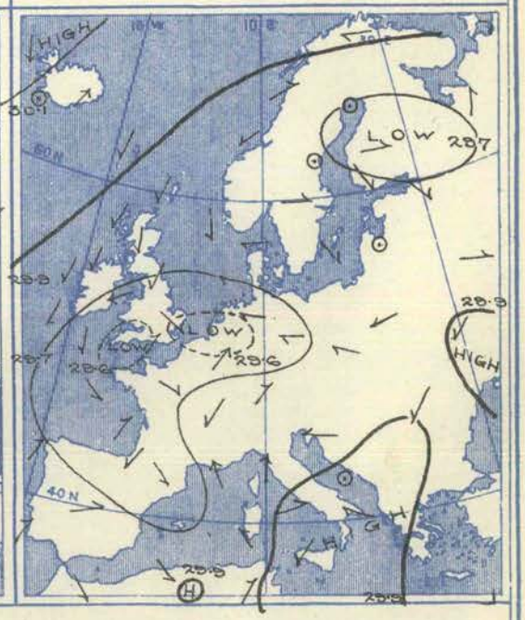
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning generally overcast or very cloudy in these Islands, with rain at some places in the east and south-east of England. Mostly fair or fine elsewhere, but cloudy or dull in various parts of central and northern Europe, and a thunderstorm prevailing at Nice. Rain later over the greater portion of England and Scotland, as much as 1·28 in. at North Shields. Thunderstorms in some English localities, and also at many French stations and at Lugano. An inch of rain falling at Geneva and 1·4 in. at Carlsruhe.

Temperature showing no general change. Morning readings ranging from 93° at Cape de Garde, 89° at Barcelona, and above 80° at some other southern stations to 60° in the north of England and in North Germany, and to 44° in the far north of Norway. Maxima during day about 75° in a few parts of England, above 80° very generally in the south of our area and 90° or above in many localities; 93° at Athens and Bucharest, 94° at Florence, and 113° at Cape de Garde. Minima very high in the extreme south; thermometer not falling below 88° at Cape de Garde.

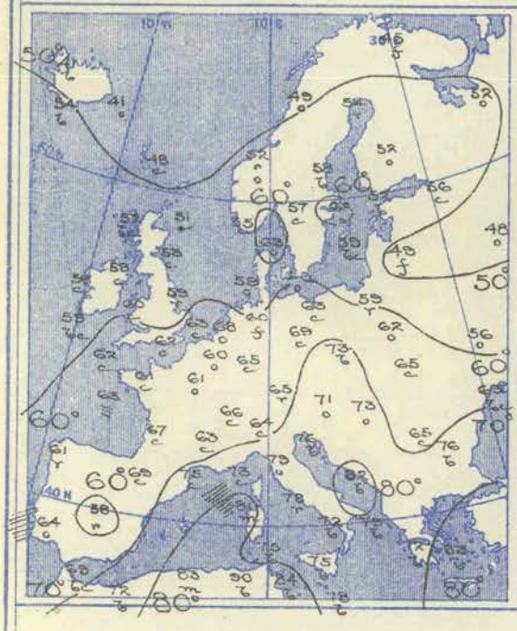
Wind in morning showing partial or complete cyclonic circulations, but of little force generally. Very light over the United Kingdom and its neighbourhood. No important change occurring during day, but increasing to a fresh or strong breeze in a few scattered localities.

Barometer in morning above 30·1 in. in the north of Iceland and also in the Azores. Below 29·6 in. in a shallow depression over England and also in another over the north of Finland; below 29·7 in. in a smaller disturbance over the Gulf of Lion. Cyclonic systems undergoing some modification both in form and position during day, but general situation remaining unaltered.

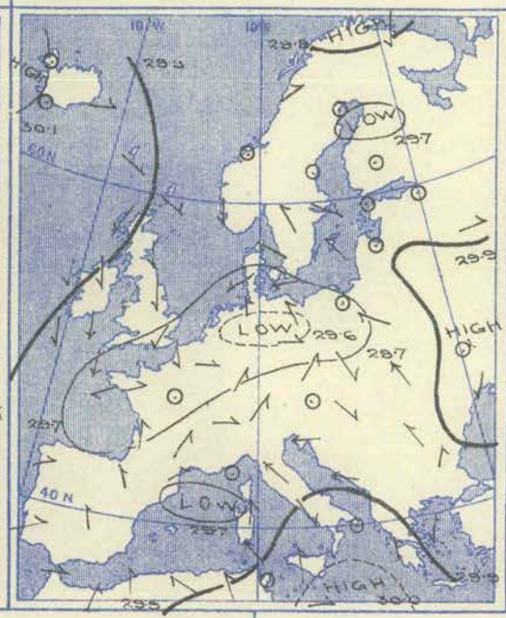
VI.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 22nd August, 1911.

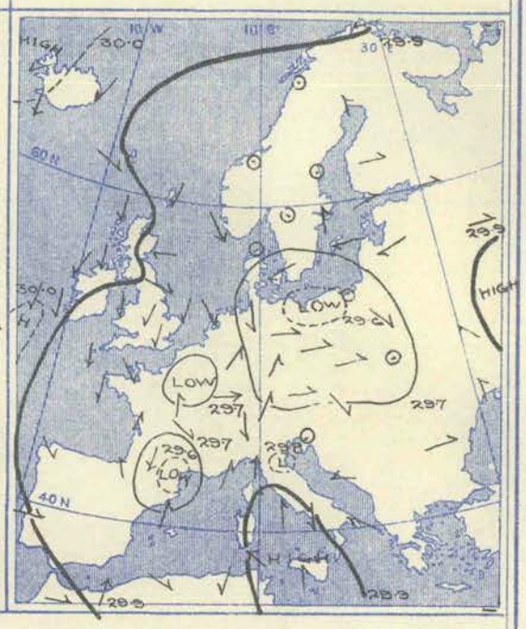
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast in most regions, but fair or fine over considerable intervals. Rainy in some parts of England and in a few isolated localities on the Continent. Some rain later in many parts of Great Britain and thunderstorms in several parts of France, Poland and Little Russia. As much as 1·4 in. of rain at Limoges, an inch at Lugano, and nearly an inch in several other places.

Temperature fallen over these Islands and the nearer countries of the Continent. Morning readings above 80° at a few stations in the south, and as high as 90° at Cape de Garde; about 70° over a large area. Below 60° over nearly the whole of the United Kingdom and in northern Europe, and below 50° at Wick, at some Russian stations and at Vardö. Maxima during day below 70° in almost all parts of this country, but above 80° in France and central and southern Europe, and above 90° in places. Thermometer touching 97° at Bucharest.

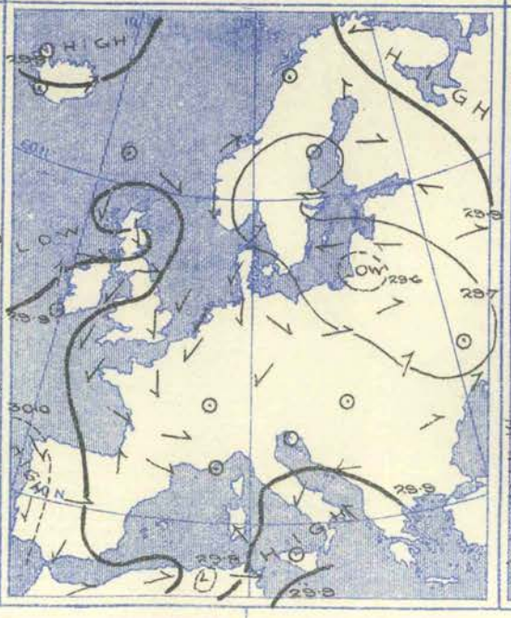
Wind in morning cyclonic very generally. Northerly current fresh on our south-west coast, but light or moderate breezes prevalent in nearly all other regions. No change of importance occurring during day.

Barometer in morning showing three separate minima, the chief one lying over North Germany. Pressure above 30·2 in. at the Azores, above 30·1 in. in the west of Iceland, and above 30·0 in. at Malta. Very little modification taking place later in the general pressure distribution or in the height of the barometer, but cyclonic systems undergoing some change in form.

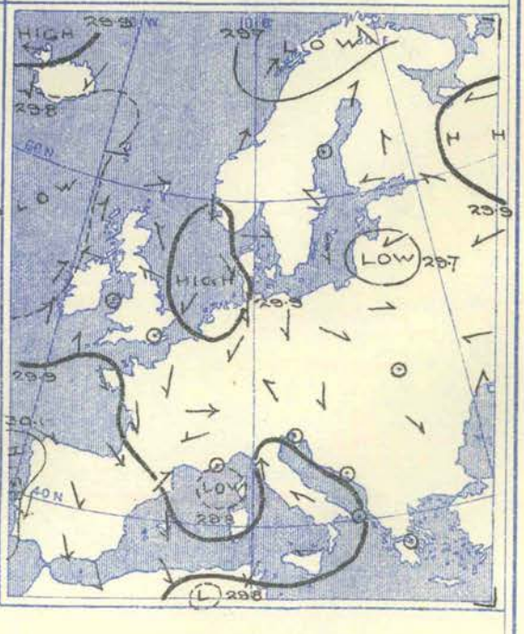
Wednesday, 23rd August, 1911.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy but fair over our Islands and Europe as a whole and fine and bright in a few places, but misty at several of our own stations and foggy locally in the south of France; rain falling at Spurn Head and Le Mans. Rain falling at most of our western stations during day, amounts generally small, but about ½ inch in the south of Ireland.

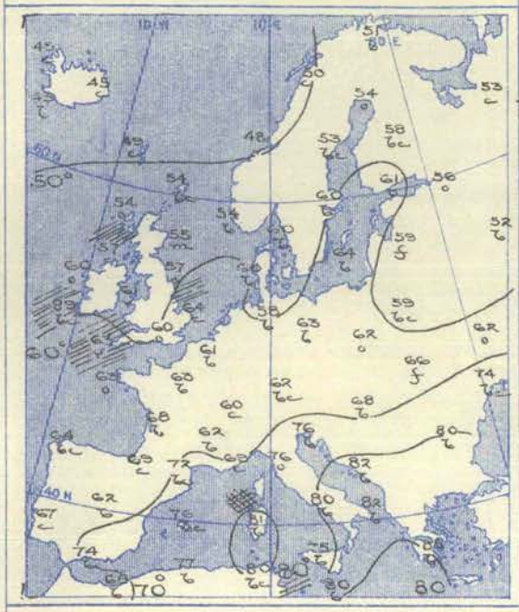
Temperature fallen over the British Islands generally, changed irregularly on the Continent; morning readings ranging from 40° in the north of Iceland and below 50° at some stations in northern Europe and the north of Scotland to above 60° on our south and south-east coasts, to above 70° over the Mediterranean region generally and to above 80° in places. Exceeding 70° during day over southern England, 73° at Bath. Maxima over southern Europe mostly between 80° and 90°, but as high as 95° at Rome.

Wind in morning Northerly or North-Easterly over the North Sea, England and the neighbouring parts of the Continent and light or moderate in force, but very light and variable in all other parts of our area. Very little change taking place during day.

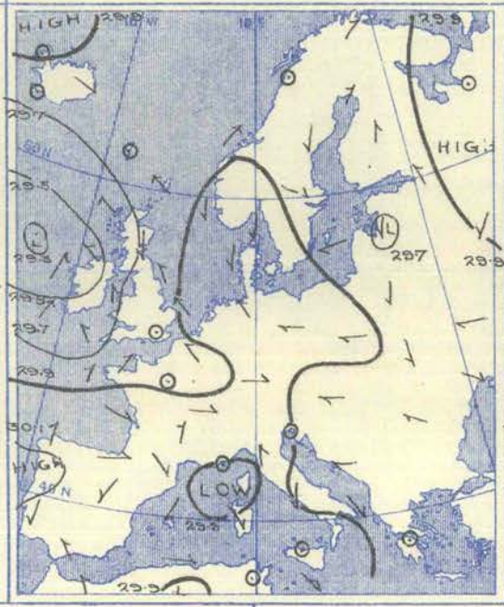
Barometer in morning highest, between 30·0 in. and 30·2 in. and upwards, between Spain and the Azores, and relatively high, above 29·9 in. over north-eastern and also over south-eastern Europe. Lowest 29·6 in. and less in a depression over the Baltic Provinces, 29·8 in. and less in a shallow system over France, and below 29·9 in. in another over Scotland. Fresh fall of the mercury setting in during day along our western coasts and a new depression approaching from the westward.

Thursday, 24th August, 1911.

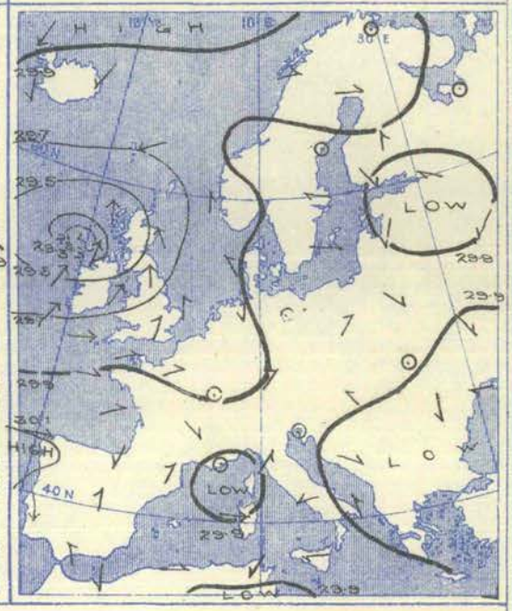
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning rainy or showery in the west and south-west of these Islands and also at Christiansund. Fair to fine in most other regions, but overcast in places. Rain very generally over the United Kingdom later, the quantity being large in the extreme north-west and north. Rain experienced at several stations on the Continent; 0·9 in. at Odessa, and 0·9 in. at La Coubre.

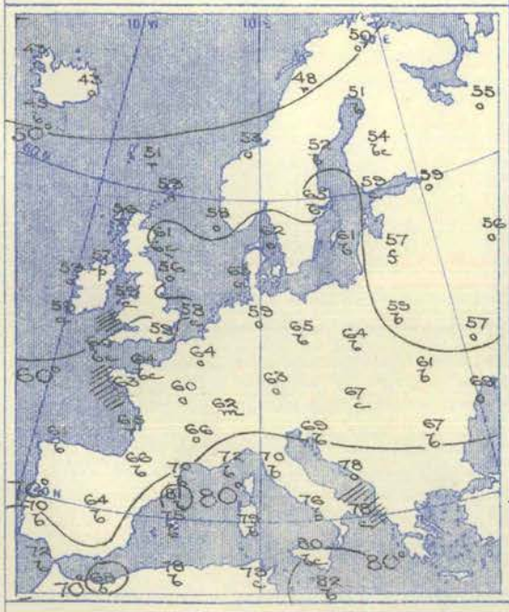
Temperature risen at most of our own stations. Readings in morning about 80° in a few localities in the far south. Above 60° over the greater part of our area, but below 50° in the Iceland region. Rising to about 70° later in various parts of England, to about 80° in France and Belgium, to above 90° in Italy and at Hermanstadt; maximum 102° at Brindisi.

Wind in morning Southerly to South-Easterly in these Islands, light or moderate generally, fresh or strong on our south-west coasts. Light or moderate breezes from various points prevailing generally elsewhere, but a strong breeze from East at Sanguinaire. Increasing considerably in force later on our western and north-western coasts, but little change as a whole.

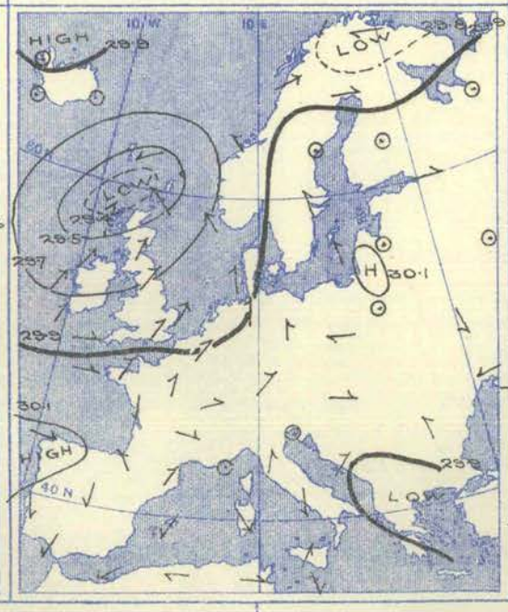
Barometer in morning below 29·4 in. in a depression off the north-west of Ireland and relatively low in some other parts of our area. Above 30·2 in. in the region of the Azores. Main depression approaching nearer to these Islands by evening and apparently growing deeper. Gradient increasing over the United Kingdom, but no important change occurring in the pressure distribution.

Friday, 25th August, 1911.

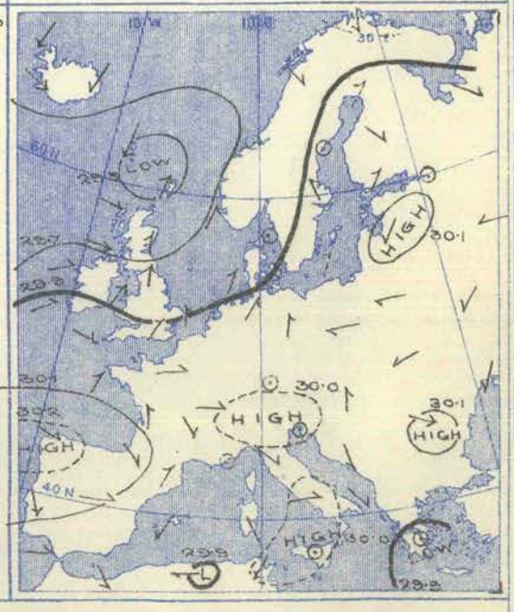
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair or fine over the greater part of our area, but cloudy or overcast in many localities in these Islands and the nearer regions of the Continent, with rain or showers in the Hebrides and at Portland Bill and Flushing, as well as at Rochefort and Bodö. Slight rain later in several parts of the United Kingdom and heavier amounts in some places on the Continent; nearly an inch at Cassel and 0·8 in. at Odessa. Thunderstorms occurring at a few stations in the south and south-east of England and at Cuxhaven.

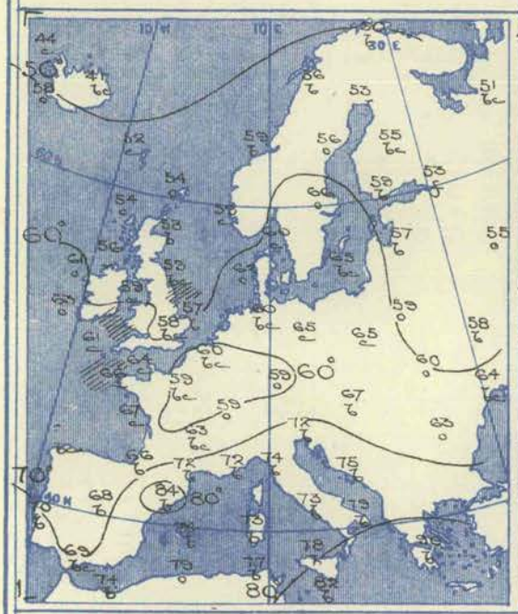
Temperature changed little generally; risen at many stations in these Islands. Morning readings ranging from 82° at Malta, 81° at Barcelona, and nearly 80° at some other southern stations to about 60° in the east of Scotland and most of England, and to about 50° in the north of Scandinavia. Maxima during day a little above 70° in many parts of England, the Netherlands and the north of France, about 80° in central Europe, 90° at Hermanstadt, and 91° at Cagliari. Thermometer rising to 95° at Patras and 109° at Athens.

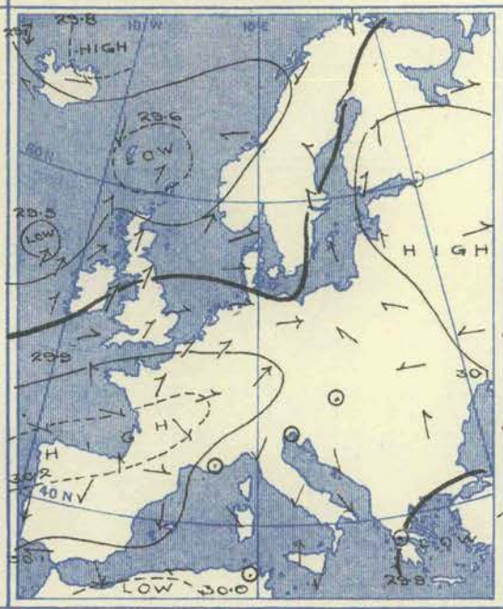
Wind in morning cyclonic over these Islands and the north-western regions of the Continent, variable in most other parts of our area. A fresh breeze from South-West prevailing in the north of Ireland and a fresh or strong breeze from the South-Eastward at Lerwick and Skudesnaes, but very little force elsewhere. Increasing from South-West or West later in some localities in this country, but no general change occurring.

Barometer in morning above 30·3 in. at the Azores and relatively high thence to Spain and in a narrow band extending to Poland and the Gulf of Bothnia. Below 29·9 in. in the south-east of our area, and below 29·4 in. in a depression centred beyond the north of Scotland. Changes during day slight; depression moving slowly in a north-easterly direction. Pressure increasing both in the east and south-west of our area, falling in central Europe.

Saturday, 26th August, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning fair to fine in most regions, but cloudy or overcast over a considerable area in northern Europe, with rain at Haparanda and Copenhagen, and cloudy and showery in the west and north-west of these Islands. Rain experienced later in nearly all parts of the United Kingdom, but quantity slight in most localities. Some larger amounts falling in Scandinavia and moderate amounts in various parts of central Europe and northern Italy.

Temperature changed little generally, risen in Scandinavia. Morning readings ranging from 90° at Athens, 84° at Barcelona, and 82° at Malta to about 65° in North Germany and on the Baltic, 60° in England and Norway, 53° at St. Petersburg, and 50° in the extreme north of the Continent. Maxima during day about 75° in a few English localities, and also in the north of France, the Netherlands, and central Europe, 80° or above in the south of the Continent, and about 90° in places.

Wind in morning mainly Southerly to South-Westerly over these Islands and western and north-western Europe; light generally, but fresh at Blacksod Point and strong at Skudesnaes. Light anticyclonic airs prevailing in Russia and also in the south-west of our area. Some increase in force later in day over these Islands, but no change of importance over our area generally.

Barometer in morning below 29·6 in. in two separate minima to the north and north-west of these Islands; above 30·1 in. in Russia, and above 30·3 in. in the Azores region. General distribution of pressure undergoing little modification during day, but a fresh baric minimum approaching the west of Scotland from the Atlantic.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). See also p. 260.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	August 4th, 11.27 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	 260°, 4		 245°, 8	 250°, 7	 250°, 7	 260°, 10			Two theodolites to 1,700 m. A few cu. Almost overcast half hour earlier.
2	August 26th, 4.0 p.m. to 6.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	291° 82% 250°, 6·3	289·5° 87% 250°, 13	286·6° 77% 250°, 15	282·7° 87% 250°, 13					Overcast Cu.-N.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites	—	1
Area of Surface (sq. metres) ..	—	5
Capacity of Balloon (cub. metres) ..	·040	—
Length of Wire (metres)	—	1,800

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 35. THIRTY-FIFTH WEEK, SUNDAY, AUGUST 27TH, TO SATURDAY, SEPTEMBER 2ND, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the Kingdom as a whole the conditions were fair to fine, but in Scotland and the north of Ireland rain fell rather frequently. Thunderstorms occurred in various districts during the earlier days of the week, mostly on August 28th in the north and west, and on the 30th in the south and south-east.

Temperature was again above the average, the excess amounting to more than 5° in England E. The highest of the maxima were recorded on the 28th at most Scottish stations, on rather variable dates in Ireland, and on September 2nd in nearly all parts of England. The values ranged from 90° in England E. (at Cromer and Hillington), 88° in the Midland Counties, 87° in England S.E., and 85° in England N.E., to 70° in Scotland W., and to 68° in Scotland N. At Greenwich Observatory the maximum on September 2nd was as high as 89°, and at Camden Square, 90°. The lowest of the minima, which was recorded on August 30th or 31st, varied from 34° in England S.E. (at Marlborough) and 37° in Scotland E. to 45° in England N.E. and N.W., and to 54° in the English Channel. The lowest grass readings were 30° at Crathes, on August 30th, and 28° at Llangammarch Wells on the 31st. At several other stations the thermometer remained above 40°, and at Southend-on-Sea the minimum was 50°.

Mean Temperature of the Sea. At all stations except Lerwick and Newquay the water was warmer than during the corresponding week of last year, the difference at Margate and Lamlash being as much as 6°. The means for the week ranged from 68° at Margate, above 66° at the Shipwash Lightship and Eastbourne, and 63° at Plymouth, to 54½° at Burnmouth, and to 54° at Lerwick.

Rainfall was more than the average in Scotland N. and W., but less elsewhere. In England E. the fall was less than 0·1 in. Large quantities were experienced in some Scottish districts about the middle or towards the end of the week. At Glencarron there was 1·27 in. on August 31st, and 1·30 in. on September 1st, and at Fort William 1·84 in. on August 31st. Rather more than 1·0 in. fell at Poltalloch and Rothesay on the 31st. A thunderstorm at Aberdovery yeilded 1·14 in. of rain on the 27th.

Bright Sunshine exceeded the normal in all districts, the excess being very uniform. The percentage of the possible duration ranged from 65 in the English Channel, and 60 in England S.E., to 44 in Ireland N. and Scotland E., and to 40 in Scotland N.

Barometer and Wind. An anticyclone lying over the central countries of Europe and the presence of depressions over the Icelandic region produced a simple south-westerly type of conditions over the United Kingdom, which continued, with slight modifications, throughout the period. The cyclonic systems were large and also rather deep, but the gradient over this country was not, as a rule, at all steep. On Thursday however, it increased considerably over Ireland and Scotland, and the Southerly and South-Westerly current blew a strong breeze or high wind on many parts of the coast, and reached gale force in some exposed localities.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 284.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Light	Light	Light	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Light	Light
	Sunshine ...	Very abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 13 weeks from June 4th, 1911.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

PAST SEASONS.

SUMMER, 1910. June 5th–Sept. 3rd. 13 weeks.	Warmth ...	6 * 2	3 * 6	4 * 4	3 * 4	4 * 5	3 * 6	5 * 4	4 * 3	3 * 5	6 * 2	3 * 4	2 * 6
	Rainfall ...	4 * 4	5 * 4	6 * 5	4 * 3	7 * 4	5 * 4	5 * 4	7 * 4	7 * 3	5 * 3	7 * 4	4 * 2
	Sunshine ...	5 * 4	4 * 7	1 * 6	1 * 7	1 * 7	1 * 7	4 * 6	3 * 4	2 * 6	3 * 5	3 * 5	1 * 6
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5

9940 / 450 Wy. & S., Ltd. 9—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-FIFTH WEEK—August 27th to September 2nd, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	40	61·6	50·3	55·6	+ 1·9	95	+ 13	0	0	6	+ 1	1·85	+0·74	40	+ 15	40	+15
Eastern																		
1. SCOTLAND, EAST	73	37	65·3	49·4	56·9	+ 2·1	104	+ 14	0	0	4	− 1	0·43	−0·28	43	+ 11	44	+12
2. ENGLAND, N.E.	85	45	69·7	53·4	61·0	+ 4·3	133	+ 30	0	0	2	− 2	0·35	−0·29	49	+ 16	51	+16
3. ENGLAND, EAST	90	43	74·9	54·3	64·0	+ 5·5	154	+ 39	0	0	1	− 3	0·07	−0·47	52	+ 14	54	+14
4. MIDLAND COUNTIES	88	42	72·2	52·0	61·5	+ 4·1	137	+ 30	0	0	2	− 2	0·43	−0·21	49	+ 15	51	+16
5. ENGLAND, S.E.	87	34	73·2	54·8	63·4	+ 3·8	150	+ 27	0	0	2	− 2	0·19	−0·47	57	+ 18	60	+18
Western																		
6. SCOTLAND, WEST	70	40	64·0	51·7	57·5	+ 2·0	109	+ 15	0	0	5	0	1·21	+0·07	45	+ 14	46	+14
7. ENGLAND, N.W.	77	45	67·1	53·8	60·0	+ 3·0	126	+ 21	0	0	2	− 3	0·62	−0·27	50	+ 18	52	+19
8. ENGLAND, S.W.	82	41	69·1	54·9	61·6	+ 3·5	137	+ 24	0	0	2	− 2	0·60	−0·29	51	+ 13	54	+14
9 IRELAND, NORTH	72	44	65·4	52·3	58·5	+ 2·9	116	+ 20	0	0	4	− 1	0·65	−0·30	43	+ 15	44	+16
10. IRELAND, SOUTH	78	42	67·2	52·8	59·5	+ 2·4	123	+ 17	0	0	3	− 1	0·31	−0·58	50	+ 18	52	+19
11. ENGLISH CHANNEL	79	54	71·3	57·6	64·0	+ 3·3	154	+ 23	0	0	1	− 4	0·21	−0·45	62	+ 16	65	+17

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 13 Weeks, June 4th to September 2nd, 1911.

0. SCOTLAND, NORTH	84	35	*	*	*	*	1211	+105	0	− 2	53	− 3	10·62	+0·05	478	+ 86	32	+ 6
Eastern																		
1. SCOTLAND, EAST	89	28	*	*	*	*	1370	+131	5	+ 4	43	− 6	5·78	−2·53	574	+ 90	39	+ 6
2. ENGLAND, N.E.	96	32	*	*	*	*	1679	+281	0	0	34	− 9	6·64	−0·34	663	+130	46	+ 9
3. ENGLAND, EAST	97	34	*	*	*	*	1911	+342	0	0	29	−12	3·83	−2·76	759	+167	53	+12
4. MIDLAND COUNTIES.. ..	98	32	*	*	*	*	1832	+315	0	0	28	−13	4·13	−2·92	687	+155	48	+11
5. ENGLAND, S.E.	96	32	*	*	*	*	1940	+288	0	0	24	−15	3·32	−3·18	838	+225	59	+16
Western																		
6. SCOTLAND, WEST	88	31	*	*	*	*	1477	+166	0	0	49	− 2	8·28	−2·75	631	+122	43	+ 8
7. ENGLAND, N.W.	90	34	*	*	*	*	1681	+238	0	0	39	− 8	6·74	−2·18	705	+179	49	+13
8. ENGLAND, S.W.	91	30	*	*	*	*	1829	+302	0	0	29	−16	5·57	−3·00	772	+191	55	+14
9. IRELAND, NORTH	86	31	*	*	*	*	1461	+134	0	0	45	−12	7·29	−2·61	565	+135	39	+ 9
10. IRELAND, SOUTH	88	36	*	*	*	*	1679	+212	0	0	43	− 6	7·52	−2·14	622	+136	44	+10
11. ENGLISH CHANNEL	86	46	*	*	*	*	1929	+262	0	0	27	−19	5·49	−1·27	861	+148	62	+11

THE YEAR.—Aggregates, &c., for the Period of 35 Weeks, January 1st to September 2nd, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	1756	+202	415	−142	144	−16	31·75	+0·34	1016	+132	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	1959	+189	492	−128	125	− 8	15·31	−4·26	1172	+120	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2364	+414	371	−104	103	−17	12·91	−2·55	1238	+104	38	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	2686	+426	409	−112	103	−13	11·65	−3·26	1412	+185	44	+ 6
4. MIDLAND COUNTIES.. ..	98	14	*	*	*	*	2623	+387	415	−118	88	−27	10·31	−6·45	1233	+134	38	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	2727	+308	361	− 20	88	−22	11·35	−4·76	1506	+263	47	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2212	+309	347	− 78	126	−14	24·61	−4·24	1238	+157	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2426	+359	314	− 72	106	−22	17·13	−4·08	1331	+234	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	2606	+314	297	− 4	98	−27	17·03	−5·62	1438	+220	45	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2191	+204	302	− 43	120	−32	17·79	−6·07	1193	+202	37	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	2575	+289	295	+ 36	127	− 8	19·41	−5·77	1265	+157	39	+ 5
11. ENGLISH CHANNEL	86	28	*	*	*	*	2859	+273	135	+ 26	103	−30	14·33	−4·35	1609	+133	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values shown in Table II.
The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	63	28th	46	30th	58·9	49·3	53·8	—	83	0	7	1·10	—	41·3	—	41	—	Baltasound.
	a Lerwick	62	28th	46	30th	58·9	51·0	54·7	+ 3·0	89	0	3	0·65	—	47·0	+20·7	48	+21	Deerness.
	a Stornoway	65	27th	43	30th	61·7	50·4	55·7	+ 2·4	96	0	7	1·74	+ 0·77	44·8	+16·0	45	+16	Stornoway.
	a Castlebay, Barra Isd.	61	28th	51	30th	59·4	53·9	56·5	+ 1·0	102	0	7	0·93	—	44·4	—	45	—	Castlebay.
	a Wick	66	27th	40	30th	62·3	48·7	55·1	+ 1·6	92	0	6	0·44	− 0·19	*	*	*	*	
b, Mainland.	p Strathpeffer.. ..	68	28th	43	29th	64·1	49·3	56·3	+ 2·3	100	0	5	0·40	− 0·19	41·9	+14·7	42	+15	Strathpeffer.
	p Glencarron .. S	64	28th	46	30th	60·1	50·3	54·9	+ 2·2	90	0	6	3·61	+ 1·83	*	*	*	*	
	p Fort Augustus S	64	2nd	45	30th	60·9	51·0	55·7	+ 1·0	96	0	6	1·97	+ 1·12	25·2	+ 4·9	26	+ 5	Fort Augustus.
	p Fort William S	68	28th	47	30th	63·3	51·3	56·9	+ 2·0	104	0	7	4·16	+ 2·66	*	*	*	*	
1. SCOTLAND, E.	p Gordon Castle S	72	28th	40	30th	66·9	49·0	57·4	+ 2·3	108	0	5	0·19	− 0·47	38·0	—	38	—	Gordon Castle.
	a Nairn	70	28th	37	30th	65·4	47·6	56·0	+ 1·2	98	0	4	0·34	− 0·20	43·3	—	44	—	Nairn.
	a Aberdeen	73	2nd	44	30th	66·3	51·6	58·5	+ 3·4	116	0	4	0·12	− 0·49	41·1	+ 8·8	42	+ 9	Aberdeen.
	a Balmoral .. S	68	28th	37	30th	62·9	44·6	53·2	+ 1·5	78	0	2	0·48	− 0·28	38·9	—	40	—	Crathes S.
	p Crieff .. .. S	69	28th	42	30th	64·7	49·9	56·9	+ 1·3	104	0	5	0·85	− 0·03	42·7	—	44	—	Balruddery.
	a Leith	71	28th	48	30th	66·7	54·1	60·0	+ 3·1	126	0	5	0·40	− 0·16	*	*	*	*	
	p West Linton.. S	67	28th, 2nd	40	30th	63·6	48·1	55·4	+ 1·8	94	0	5	0·88	—	41·9	—	43	—	West Linton.
	p Marchmont .. S	69	2nd	44	30th	65·9	49·9	57·4	+ 3·2	108	0	2	0·17	− 0·55	48·4	+17·2	49	+18	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	73	2nd	47	30th	68·1	51·1	59·1	+ 3·7	120	0	2	0·35	− 0·30	54·1	—	56	—	Cockle Park.
	a Shields	79	2nd	46	30th	69·0	52·0	60·0	+ 3·7	126	0	2	0·24	− 0·31	45·0	+17·7	46	+18	Newcastle.
	p Durham	72	2nd	45	31st	67·5	51·7	59·1	+ 2·4	120	0	2	0·13	− 0·39	51·0	+19·8	53	+20	Durham.
	p Rounton .. M	77	2nd	45	30th	68·3	52·0	59·7	+ 3·9	124	0	2	0·29	− 0·23	*	*	*	*	
	p Scarborough.. M	76	2nd	50	31st	69·4	53·9	61·2	+ 4·1	134	0	2	0·28	− 0·27	52·4	—	54	—	Scarborough.
	p York	78	2nd	48	31st	70·4	53·7	61·6	+ 4·0	137	0	4	0·43	− 0·10	44·2	+12·6	46	+13	York.
b, South.	a Spurn Head	75	1st	55	31st	69·7	58·0	63·5	+ 5·1	151	0	1	0·50	+ 0·08	*	*	*	*	
	a Lincoln	84	2nd	48	31st	72·6	53·6	62·5	+ 4·1	144	0	1	0·52	+ 0·02	44·9	—	47	—	Skegness.
	a Fulbeck	85	2nd	48	31st	72·1	54·4	62·7	+ 4·4	145	0	2	0·40	− 0·10	47·5	—	50	—	Rauceby.
															57·2	—	60	—	Lowestoft.
3. ENGLAND, E. — a, North.	p Cromer	90	2nd	51	31st	75·2	55·3	64·7	+ 6·5	159	0	1	0·04	—	50·3	—	52	—	Cromer.
	p Hillington .. M	90	2nd	43	31st	75·4	51·8	62·9	+ 4·6	146	0	2	0·24	− 0·36	48·5	+11·1	51	+12	Hillington.
	a Yarmouth	80	1st	51	31st	74·1	55·6	64·3	+ 5·5	156	0	1	0·05	− 0·46	54·3	—	57	—	Yarmouth.
	a Norwich	89	2nd	46	31st	75·9	53·9	64·2	+ 5·5	155	0	1	0·07	—	*	*	*	*	
	p Geldeston	88	2nd	43	31st	77·2	53·0	64·4	+ 6·0	157	0	1	0·03	− 0·46	50·9	+10·3	53	+11	Geldeston.
	p Cambridge	89	2nd	45	31st	75·0	53·0	63·3	+ 3·7	149	0	1	0·07	− 0·42	51·9	+12·2	54	+13	Cambridge.
b, South.	a Felixstowe	74	29th, 2nd	54	31st	72·9	57·4	64·3	+ 4·7	156	0	1	0·01	—	61·5	—	64	—	Felixstowe.
	a Clacton-on-Sea ..	75	2nd	55	1st	72·3	58·1	64·8	+ 5·1	160	0	1	0·02	—	59·3	—	62	—	Clacton.
	a Rothamsted ..	85	2nd	45	31st	72·7	51·9	61·7	+ 3·9	138	0	2	0·07	− 0·49	47·5	+ 8·3	50	+ 9	Rothamsted.
	a Shoeburyness ..	85	2nd	52	31st	74·9	58·0	65·9	+ 5·2	167	0	1	0·08	− 0·32	54·5	—	57	—	Southend.
	p Tottenham	88	2nd	50	31st	76·2	55·8	65·4	+ 5·8	164	0	1	0·02	—	53·1	—	56	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	74	2nd	46	30th	68·2	51·7	59·5	+ 3·6	123	0	2	0·48	− 0·10	46·8	—	48	—	Harrogate.
	a Bawtry	81	2nd	45	31st	73·9	51·3	61·9	+ 4·3	139	0	3	0·53	+ 0·04	38·6	+ 7·6	40	+ 8	Worksop.
	p Buxton .. M	74	2nd	43	31st	68·2	50·1	58·6	+ 3·7	116	0	2	1·06	+ 0·09	45·4	—	47	—	Buxton.
	a Nottingham ..	83	2nd	45	31st	72·4	51·9	61·5	+ 3·7	137	0	2	0·44	− 0·08	46·7	—	49	—	Nottingham.
	p Birmingham, Edgbsn	82	2nd	49	31st	71·2	53·8	62·0	+ 4·0	140	0	2	0·64	+ 0·07	44·5	—	46	—	Birmingham.
	a Raunds .. M	88	2nd	43	31st	75·7	52·4	63·4	+ 5·3	150	0	1	0·22	—	*	*	*	*	
	a Oxford	86	2nd	47	31st	74·0	54·0	63·4	+ 4·6	150	0	3	0·26	− 0·22	52·1	+13·3	54	+14	Oxford.
b, West.	a Cheadle .. M	79	2nd	46	31st	69·8	51·9	60·3	+ 4·4	128	0	1	0·73	+ 0·01	48·9	—	51	—	Sheffield.
	p Shrewsbury	79	2nd	43	31st	72·0	51·3	61·0	+ 3·1	133	0	1	0·54	—	*	*	*	*	
	a Hereford .. M	80	2nd	42	31st	71·1	52·3	61·1	+ 3·0	134	0	3	0·38	− 0·15	*	*	*	*	
	a Cirencester	81	2nd	43	31st	72·2	49·9	60·4	+ 3·4	129	0	3	0·36	− 0·28	54·0	+16·2	56	+17	Cirencester.
	a Bath	80	2nd	42	31st	73·6	51·9	62·1	+ 3·4	141	0	2	0·13	− 0·47	57·6	—	61	—	Bath.
															65·7	—	69	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	84	2nd	47	31st	75·0	54·4	64·1	+ 4·9	155	0	2	0·26	− 0·26	51·0	+11·8	54	+12	Kew.
	a Marlborough ..	85	2nd	34	31st	73·1	49·5	60·6	+ 3·9	130	0	2	0·19	− 0·40	51·6	+14·4	54	+15	Marlborough.
	a Margate	87	2nd	54	31st, 1st	76·1	57·9	66·5	+ 6·1	172	0	1	0·01	− 0·44	62·2	+22·4	66	+24	Margate.
	a Wisley, Surrey ..	81	2nd	43	31st	74·8	53·0	63·2	+ 3·3	149	0	2	0·30	—	57·1	—	60	—	Wisley.
	a Swarraton .. M	83	2nd	41	31st	72·2	52·2	61·6	+ 3·8	137	0	3	0·67	+ 0·07	59·1	—	62	—	Worthing.
	a Tunbridge Wells M	85	2nd	47	31st, 1st	74·8	52·7	63·1	+ 4·4	148	0	1	0·02	− 0·51	62·4	+21·0	66	+22	Tunbridge Wells.
	a Dungeness	75	2nd	46	31st	70·6	56·6	63·2	+ 3·1	148	0	0	0·00	− 0·46	61·9	—	65	—	Littlestone.
	p Hastings	75	2nd	52	31st	70·4	57·1	63·4	+ 3·4	150	0	1	0·02	− 0·53	66·8	+22·3	70	+23	Hastings.
	p Southampton ..	82	2nd	47	1st	72·7	55·2	63·4	+ 2·7	150	0	3	0·25	− 0·32	50·1	+ 6·6	53	+ 7	Southampton.
	a Ventnor	76	2nd	53	31st	71·8	59·3	65·2	+ 4·0	162	0	1	0·19	− 0·34	52·7	+ 7·8	56	+ 8	Ventnor.
															66·3	+22·9	70	+24	Eastbourne.
LONDON .. —	a Westminster	87	2nd	51	31st	75·6	56·1	65·3	+ 5·3	163	0	2	0·20	− 0·30	54·9	+20·2	58	+21	Westminster.
	a Greenwich	89	2nd	48	31st	78·7	54·0	65·6	+ 5·2	165	0	2	0·41	− 0·05	61·2	+18·6	64	+20	Greenwich.
6. a, SCOTLAND. W.	a Poltalloch .. S	65	30th	41	30th	62·6	50·6	56·2	+ 0·3	99	0	7	2·59	+ 1·49	*	*	*	*	
	p Glasgow	67	28th	46	30th	63·9	53·3	58·3	+ 3·4	114	0	4	0·89	+ 0·03	41·2	+13·8	42	+14	Glasgow.
	p Rothesay .. S	68	28th	51	31st	64·1	52·9	58·2	+ 2·5	113	0	7	1·77	+ 0·69	*	*	*	*	
	a Kilmarnock	68	28th	41	30th	64·6	51·3	57·6	+ 1·9	109	0	5	1·04	—	44·5	—	45	—	Kilmarnock.
	a Colmonell .. S	70	2nd	43	30th	65·8	52·0	58·5	+ 2·1	116	0	4	0·74	− 0·22	*	*	*	*	
	p Dumfries .. S	66	30th	45	30th	63·7	53·4	58·2	+ 1·1	113	0	5	1·36	+ 0·53	45·9	—	47	—	Dumfries.
	p Cally, Gatehouse S	68	2nd	40	30th	64·6	46·7	55·1	+ 0·4	92	0	3	0·90	− 0·13	*	*	*	*	
b, ISLE OF MAN ..	p Douglas	66	2nd	49	30th	62·7	53·1	57·6	+ 1·9	109	0	3	0·37	− 0·56	49·6	+12·4	51	+13	Douglas.
															53·8	—	56	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	69	2nd	45	30th	65·3	52·0	58·3	+ 2·4	114	0	4	1·35	+ 0·38	51·0	—	53	—	Aspatria.
	p Newton Rigg ..	69	2nd	45	30th	64·8	51·5	57·8	+ 3·0	111	0	4	0·58	− 0·17	45·3	+13·3	47	+14	Newton Rigg.
	p Stonyhurst	70	1st	47	30th	65·7	52·7	58·8	+ 2·8	118	0	3	0·63	− 0·45	47·1	+14·8	49	+15	Stonyhurst.
	p Blackpool .. M	69	1st	48	31st	66·3	54·6	60·1	+ 2·6	127	0	1	0·49	− 0·31	55·8	+21·7	58	+22	Blackpool.
	p M'nch'ster, Prestwich	77	2nd	46	31st	70·5	52·2	60·8	+ 4·1	132	0	3	0·68	− 0·17	39·5	+10·8	41	+11	Prestwich.
	a Liverpool (Bidston)	74	1st	50	31st	68·4	56·0	61·3	+ 4·2	135	0	2	0·47	− 0·19	52·2	—	54	—	Liverpool.
	a Hawarden Bridge ..	74	1st	48	31st	69·2	55·0	61·7	+ 3·2	138	0	1	0·62	+ 0·02	58·6	+22·8	60	+24	Southport.
															54·0	—	56	—	Rhyl.
b, NORTH WALES ..	p Llandudno .. M	71	2nd	54	31st	68·1	56·8	62·1	+ 3·5	141	0	1	0·35	− 0·28	53·0	+18·2	55	+19	Llandudno.
	p Holyhead	69	2nd	54	30th	65·4	56·3	60·6	+ 2·8	130	0	1	0·44	− 0·25	47·7	—	50	—	Aberdovey.
	p Bettws-y-Coed ..	73	2nd	47	30th	66·9	51·6	58·8	+ 0·9	118	0	3	0·55	—	42·2	—	44	—	Bettws-y-Coed.
															43·7	—	46	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	74	2nd	41	31st	67·4	50·5	58·4	+ 2·2	115	0	4	1·24	—	46·4	—	48	—	Llangammarch Wells.
	a Pembroke	67	2nd	56	28th, 30th	65·1	58·3	61·5	+ 3·5	137	0	2	0·95	+ 0·27	42·3	+ 2·0	44	+ 2	Pembroke.
	p Cardiff	75	1st	46	31st	70·3	53·7	61·5	+ 2·7	137	0	3	1·24	+ 0·31	55·0	—	57	—	Cardiff.
															49·3	+ 8·4	51	+ 9	Tenby.
b, ENGLAND, S.W.	a Clifton	77	1st, 2nd	48	31st	71·9	56·1	63·5	+ 3·9	151	0	2	0·68	− 0·06	55·8	—	59	—	Clifton.
	a Shaftesbury .. M	82	2nd	48	31st	69·6	53·9	61·3	+ 3·4	135	0	2	0·20	− 0·47	*	*	*	*	
	a Arlington	75	1st	44	31st	69·1	52·7	60·4	+ 3·4	129	0	3	0·82	− 0·30	57·8	+14·2	61	+15	Newquay.
	a Cullompton .. M	82	2nd	41	1st	73·4	51·2	61·6	+ 3·2	137	0	3	0·28	− 0·37	53·3	+14·0	56	+15	Cullompton.
	a Portland Bill ..	70	1st	56	31st	67·1	60·0	63·3	+ 3·1	149	0	1	0·16	—	55·5	—	58	—	Weymouth.
	p Plymouth	76	2nd	48	31st, 1st	69·4	55·9	62·3	+ 2·5	142	0	2	0·20	− 0·44	54·6	+12·6	58	+13	Plymouth.
	p Falmouth	70	2nd	52	31st, 1st	67·7	56·3	61·7	+ 2·7	138	0	1	0·24	− 0·51	57·8	+13·0	61	+14	Falmouth.
															55·6	—	59	—	Salcombe.
															55·9	+12·3	59	+13	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	67	28th	51	30th	62·9	52·9	57·6	+ 1·6	109	0	6	0·63	− 0·14	*	*	*	*	
	a Blacksod Point ..	65	29th, 30th	49	30th	63·4	54·7	58·8	+ 2·1	118	0	4	1·56	+ 0·51	*	*	*	*	
	p Markree Castle ..	68	27th	44	30th	65·8	50·1	57·5	+ 2·1	109	0	5	0·86	− 0·10	39·4	+11·9	41	+12	Markree Castle.
	a Birr Castle	72	1st	47	30th	67·3	52·0	59·2	+ 2·8	120	0	3	0·39	− 0·39	49·2	+17·7	51	+19	Birr Castle.
b, East.	p Armagh	70	1st, 2nd	48	31st	67·4	52·0	59·2	+ 3·4	120	0	4	0·06	− 0·72	45·8	+17·4	47	+18	Armagh.
	a Donaghadee	68	28th, 1st	46	30th	65·6	52·0	58·4	+ 1·9	115	0	3	0·37	− 0·38	*	*	*	*	
10. IRELAND, S. — a, East.	p Dublin, City.. ..	71	28th, 1st	51	30th	67·8	55·2	61·1	+ 2·8	134	0	4	0·33	− 0·37	48·1	+12·7	50	+13	Phœnix Park.
	a Kilkenny	70	1st, 2nd	44	30th, 31st	67·4	49·0	57·7	+ 0·9	110	0	2	0·23	− 0·51	*	*	*	*	
	a Waterford	78	28th	42	31st	68·7	51·4	59·5	+ 1·8	123	0	3	0·20	− 0·63	*	*	*	*	
	a Birr Castle	72	1st	47	30th	67·3	52·0	59·2	+ 2·8	120	0	3	0·39	− 0·39	49·2	+17·7	51	+19	Birr Castle.
b, West.	a Foynes	72	1st	52	30th	66·8	53·5	59·8	+ 2·4	125	0	3	0·03	− 0·80	*	*	*	*	
	a Cahir .. .. M	70	2nd	45	31st	67·3	49·6	57·9	+ 0·8	111	0	3	0·64	—	*	*	*	*	
	a Killarney	74	2nd	48	30th	68·7	54·8	61·3	+ 4·1	135	0	4	0·46	− 0·56	*	*	*	*	
	a Valencia	66	27, 28, 1st	49	30th	65·1	54·6	59·5	+ 1·8	123	0	4	0·25	− 0·86	49·3	+16·4	51	+17	Valencia.
	a Roche's Point ..	68	2nd	50	30th	65·4	54·7	59·7	+ 1·6	124	0	2	0·24	− 0·62	53·1	—	56	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	71	1st	56	28, 30, 31st	68·0	57·7	62·5	+ 2·4	144	0	2	0·27	− 0·33	55·1	+ 7·6	58	+ 8	Scilly.
	a Jersey, St. Aubins ..	79	1st	54	1st	73·4	57·6	65·0	+ 3·0	161	0	1	0·11	− 0·49	69·8	+19·5	74	+21	St. Heliers.
	a Guernsey	76	1st	54	31st, 1st	72·6	57·4	64·5	+ 3·3	158	0	1	0·25	− 0·40	61·3	+11·1	65	+12	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 58·3 hrs. (+13·1 hrs.), 61 % (+14 %); Bournemouth, 53·4 hrs., 56 %; Bognor, hrs., %.* For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	54·7	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	55·6
	Crathes	1	30	57·4	56·4
	Balmoral	0	34	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	40	56·7	—
2.	Cockle Park	0	40	56·6	57·0
	Durham	0	39	—	—
	York	—	—	60·9	59·3
	Hull	0	40	60·9	58·9
	Lincoln	—	—	61·5	60·0
	Rauceby	0	40	63·5	61·6
3.	Norwich	0	41	—	—
	Yarmouth	—	—	65·7	64·9
	Lowestoft	0	46	64·5	62·0
	Cambridge	0	39	64·6	63·4
	Clacton-on-Sea ..	0	46	64·0	62·0
	Southend	0	50	73·0	—
	Tottenham	0	45	—	66·0

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	41	58·6	58·1
	Huddersfield ..	0	41	61·5	60·1
	Buxton	0	38	60·3	57·5
	Sheffield	0	40	60·9	58·6
	Nottingham.. ..	0	43	61·8	62·0
	Birmingham.. ..	0	35	57·9	56·7
	Oxford	0	—	—	—
	Hereford	0	34	—	—
	Cirencester	0	38	61·8	60·3
	Bath	—	—	64·8	63·7
5.	Margate	0	49	64·4	63·1
	Greenwich	0	38	—	—
	Westminster ..	0	46	—	—
	Kew	0	38	63·4	61·0
	Canterbury	0	44	65·3	66·0
	Tunbridge Wells ..	0	39	64·0	—
	Wisley	0	36	63·9	63·5
	Worthing	0	44	64·9	62·8
	Portsmouth	0	43	65·9	64·9
6.	Glasgow	0	35	—	—
	Rothesay	—	—	—	56·5
	Colmonell	0	39	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	34	60·4	60·7
	Douglas	0	46	—	—
7.	Aspatria	0	35	58·5	56·7
	Newton Rigg ..	0	38	59·2	57·7
	Burnley	0	37	58·9	58·0
	Southport	0	43	62·8	62·6
	Manchester City ..	0	46	62·8	63·2
	Bettws-y-Coed ..	0	46	58·4	57·7
8.	Llangammarch Wells	1	28	59·8	57·8
	Cardiff	0	39	63·3	62·4
	Clifton	0	45	—	—
	Plymouth	0	40	65·1	—
9.	Armagh	0	43	60·4	59·2
	Markree	0	37	60·4	58·2
10.	Dublin, Trin. Coll. ..	0	44	61·4	60·3
11.	Guernsey, Brooklyn	0	41	65·9	64·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	54	54	54·0
	Kirkwall	56	55	55·9
	Wick	56	54	55·4
SCOTLAND E.	Cromarty	63	56	58·2
	Pennan Bay	57	55	56·2
	Aberdeen, Cove Bay ..	56	55	56·0
ENGLAND, N.E.	Burnmouth, Berwick ..	55	54	54·5
	Scarborough	60	53	57·9
ENGLAND, E.	Shipwash Lightship ..	69	65	66·7
	Margate‡	70	68	68·1
ENGLAND, S.E.	Eastbourne‡	67	65	66·1

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	64	58	60·5
	Ballantrae	61	54	58·0
ENGLAND, N.W.	Port Erin	59	59	58·8
ENGLAND, S.W.	Newquay	63	60	60·9
	Scilly	61	56	59·0
	Plymouth‡	64	63	63·1
	Salcombe	64	60	61·5
IRELAND, N.W.	Sheephaven	62	60	60·5
	Teelin	64	58	60·7
IRELAND, S.W.	Cleggan	60	57	58·4
	Seafield	65	57	60·8
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫—▸ = a heavy gale (Forces 10–12 Beaufort Scale); ➤—▸ = a gale (Forces 8 and 9); ——▸ = a moderate breeze to high wind (Forces 4 to 7); —▸ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

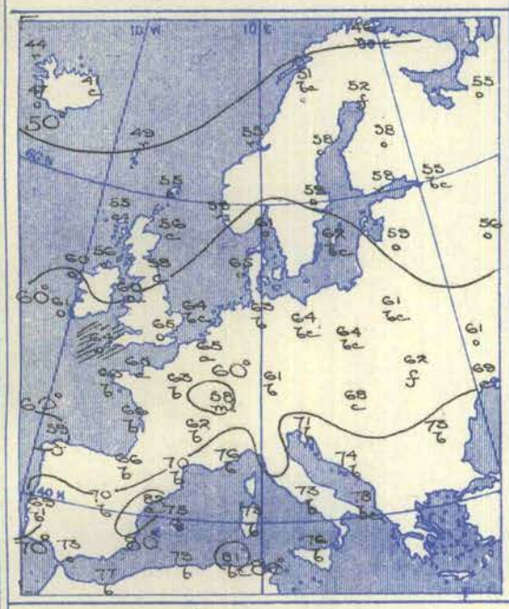
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 27th August, 1911.

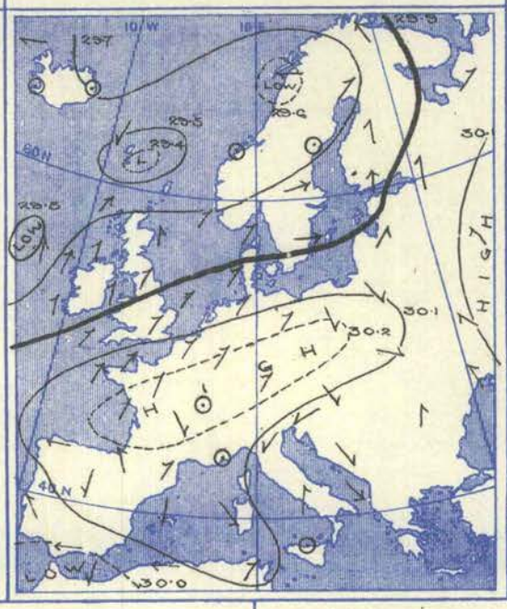
Temperature and Weather.

7 a.m.

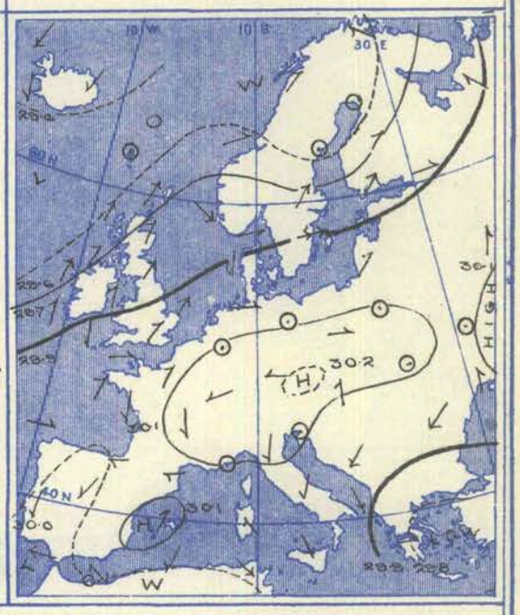


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning mainly cloudy over these Islands and the north-west and north of the Continent, with showers at Pembroke and rain in the west of Norway. Generally very fine over central and southern Europe. More than 0·9 in. of rain later at Pembroke and about 0·5 in. at some other stations in the United Kingdom. Heavy falls experienced in Scandinavia and considerable quantities at a few places in the central countries.

Temperature risen in England and the nearer regions of the Continent. Morning readings ranging from about 80° at some Mediterranean stations to 65° at Brussels and in some English localities, to 55° at Archangel, and to 46° at Vardö. Maxima during day a few degrees above 70° in various parts of England, above 80° in several places over the southern countries of the Continent, and about 90° in a few localities. Thermometer touching 93° at Athens and 97° at Bilbao.

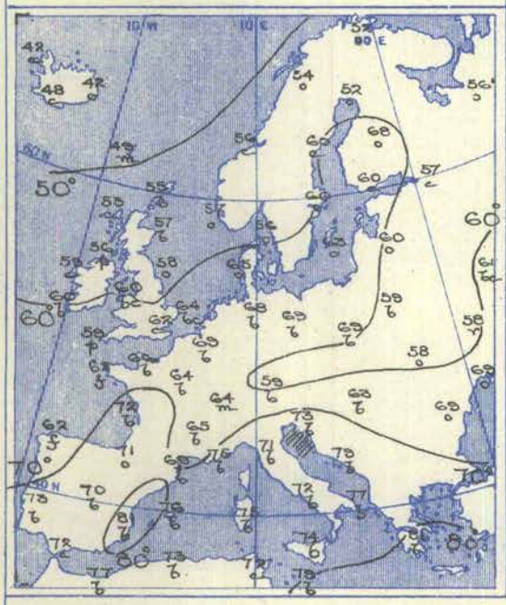
Wind in morning Southerly to South-Westerly over these Islands, the North Sea, and southern Scandinavia, light or moderate generally, but fresh to strong in some places. Easterly breezes of little strength prevailing in the far north and north-west. Light or moderate breezes, mainly from between North and East, general over the Mediterranean region. No change of importance occurring during day.

Barometer in morning below 29.6 in. in a complex low pressure system in the north of our area, and still lower on the Atlantic to the west of Ireland. Above 30·2 in. in an anticyclone extending from the south-west of France to the east of Germany, and above 30·1 in. in Russia. No great modification taking place later in day in the general distribution of pressure; barometer falling slowly along our west and north-west coasts, and decidedly on the west coast of France.

Monday, 28th August, 1911.

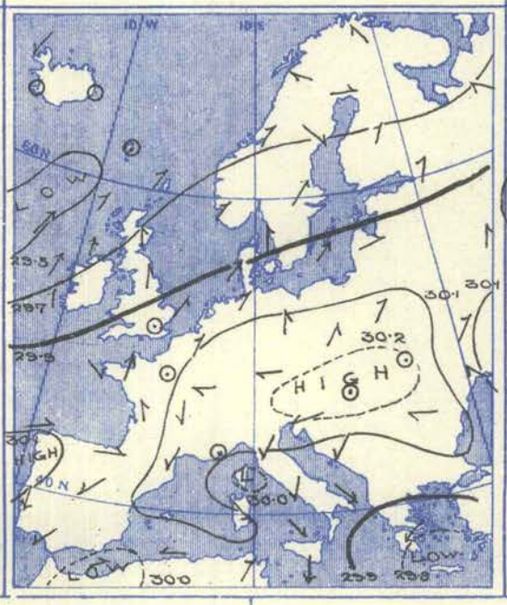
Temperature and Weather.

7 a.m.

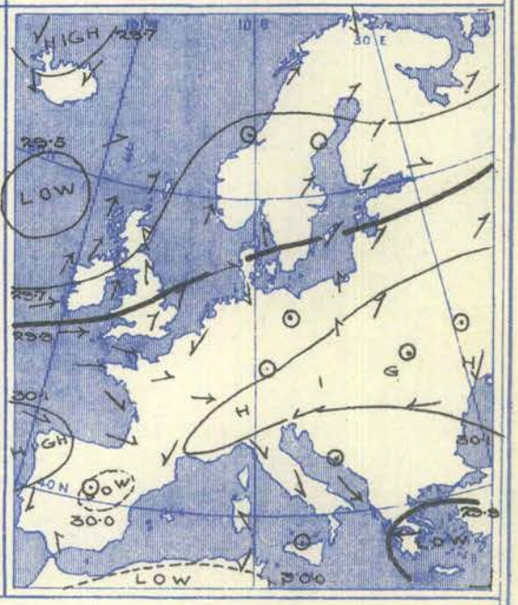


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning showery in a few parts of England and Ireland and rainy at Keiff, but fair to fine over our area as a whole. Thunderstorms later in some Irish localities and rain, mostly slight, in various parts of Great Britain, Brittany, the Netherlands, Finland, and Scandinavia.

Temperature changed rather irregularly. Morning readings ranging from about 80° at several stations in the Mediterranean region to about 70° in North Germany, to 55° in the north of Scotland, and to 52° at Vardö. Rising to 70° or a little higher in some parts of this country, to above 80° over a wide area on the Continent, and to about 90° in places. Thermometer touching 87° at Brussels, 89° at Paris, and 90° at Frankfurt.

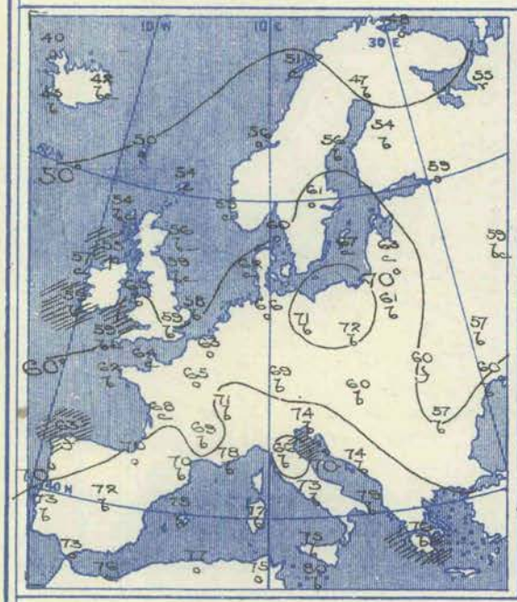
Wind in morning South-Westerly over these Islands and Scandinavia and mostly light to moderate in force. Light anticyclonic airs general over central and most parts of southern Europe, and light cyclonic winds on the Mediterranean. Increasing somewhat in force later in the extreme west and north-west of these Islands, and also at Brindisi.

Barometer in morning above 30·2 in. in an anticyclonic system centred over Hungary and above 30·1 in. between the Azores and Portugal. Low in a large area in the north and north-west; below 29·5 in. in a depression on the Atlantic some distance to the north-west of the United Kingdom. Latter moving in an easterly direction during day and gradient increasing over the west and north of these Islands. No change of importance taking place in the general distribution of pressure.

Tuesday, 29th August, 1911.

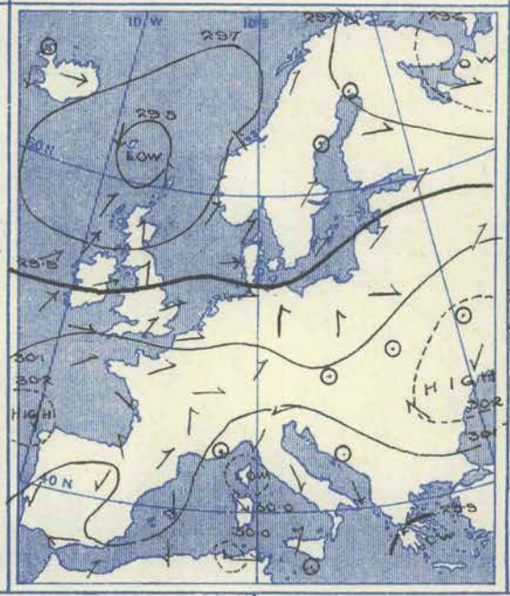
Temperature and Weather.

7 a.m.

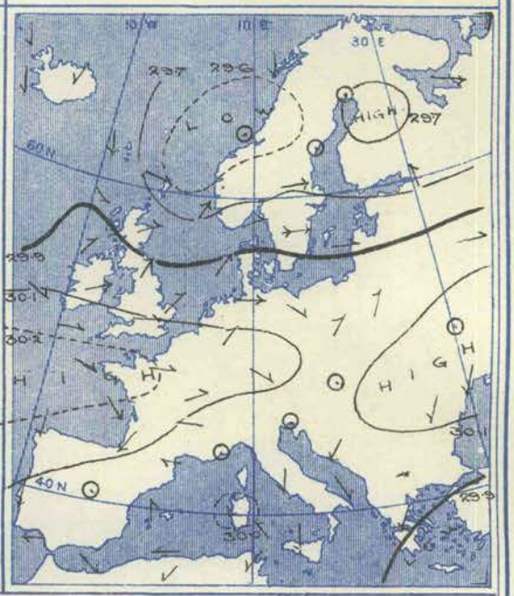


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine over our area generally, but cloudy in some northern and north-western parts of these Islands, and showery at Malin Head. Dull and rainy at Archangel. Some rain later in the west and north of these Islands and also in northern Russia and Scandinavia; quantity slight or moderate generally.

Temperature risen in central Europe and over the Baltic. Morning readings ranging from about 80° at several stations in the south and about 70° in North Germany to 54° in the north of Scotland, and to below 50° in the extreme north of the Continent. Maxima during day slightly above 70° in many parts of England, above 80° over a large area in the Continent, and 90° in places. Thermometer touching 93° at Madrid.

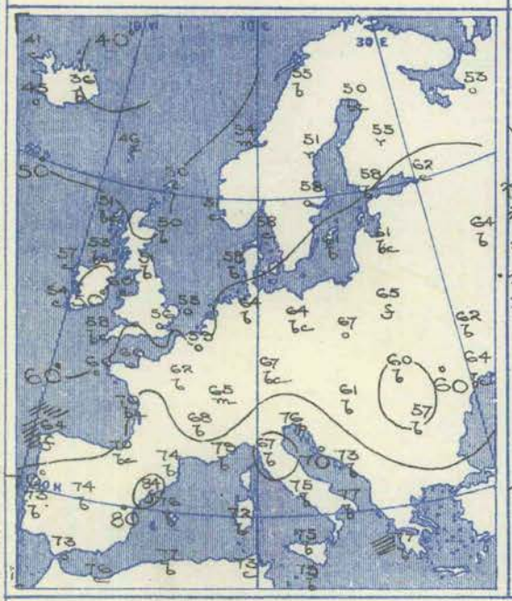
Wind in morning showing a cyclonic circulation over all the north-western countries; Westerly and South-Westerly current fresh to strong on our west and north-west coasts. Light and rather variable airs mostly prevalent over central and southern Europe, but a strong North-West wind blowing at Brindisi. Veering towards West in most parts of these Islands later in day, and increasing to a gale from West at Wisby.

Barometer in morning ranging from above 30·2 in. in the Black Sea region and also in the north-west of Spain, to below 29·5 in. in a well-marked depression centred off the north of Scotland. Relatively low in the extreme south-east of Europe. Northern depression moving east-north-eastwards during day and pressure rising again over this country and the nearer regions of the Continent.

Wednesday, 30th August, 1911.

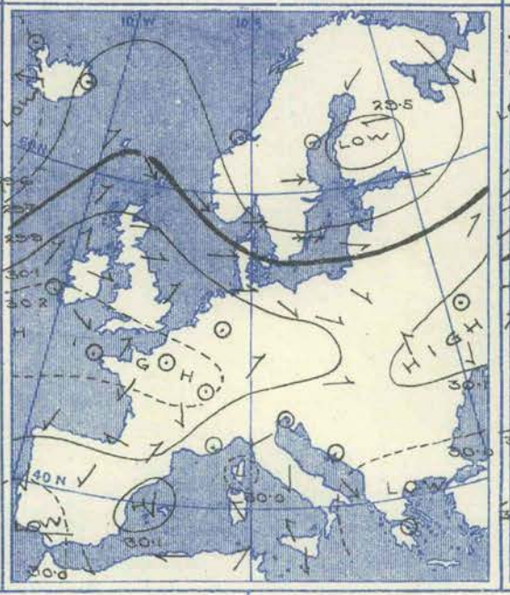
Temperature and Weather.

7 a.m.

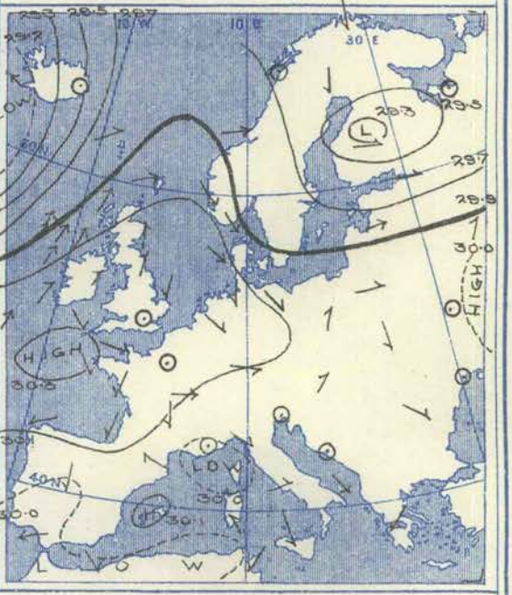


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast in various parts of Scandinavia and Finland, with rain at Hernösand and Kuopio; fair to bright very generally elsewhere, but foggy at Corunna. Rain later in a few parts of the United Kingdom, and thunderstorms in central and south-eastern England. Rain experienced in Switzerland, some other parts of central Europe, and also in Russia and Scandinavia.

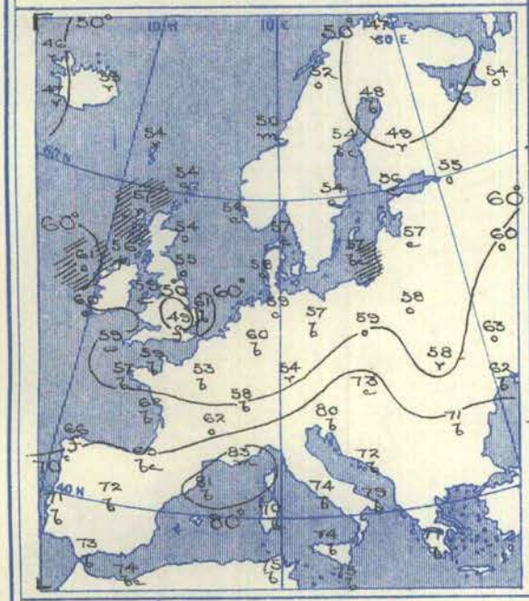
Temperature fallen in most regions. Morning readings ranging from 84° at Barcelona and 73° at Malta and Nice to about 65° in North Germany, and below 50° in the north of Scotland and at Donaghadee. Maxima during day again rather above 70° in several English localities; above 80° very generally over the south of Europe and the Mediterranean, and above 90° at various stations. Reading 95° at Cette, 93° at Madrid, and 92° at Florence. Minima of the night much lower than of late in England.

Wind in morning cyclonic over the northern half of our area; light or moderate generally, but fresh to strong from the Westward over the Baltic region and in the south of Norway. Light breezes from various directions prevailing in the south of our area. Backing towards South later in these Islands and increasing considerably in force along the west and north-west coasts.

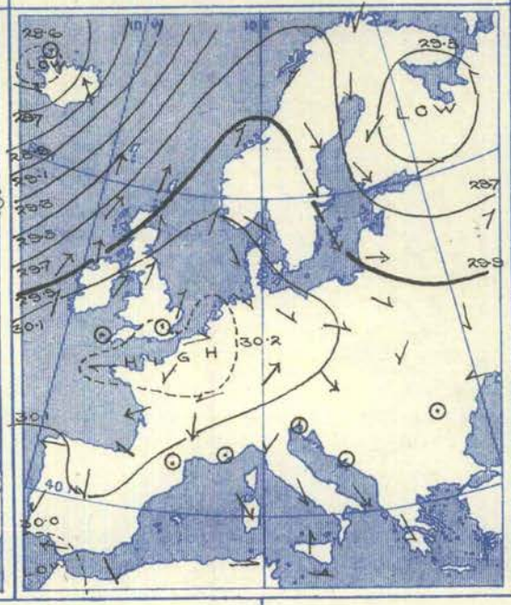
Barometer in morning relatively high in a band stretching from the Azores to the south of Russia. Below 29·5 in. in a depression over Finland, and below 29·6 in. in another on the Atlantic to the south of Iceland. Latter approaching nearer the United Kingdom during day, and gradient increasing. Finnish depression growing deeper, but scarcely changing its position.

Thursday, 31st August, 1911.

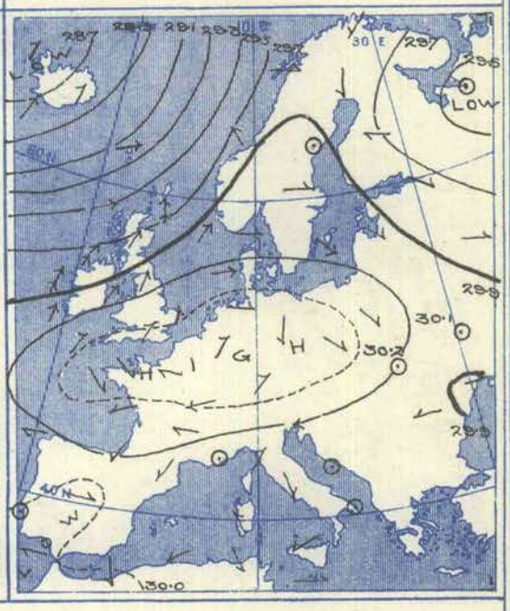
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy or showery on our extreme north-west coasts, and also at a few stations in central and northern Europe, but fair to bright generally. Some rain in Ireland and Scotland later, as well as in Austria, the north of Italy, Finland, and Norway. More than an inch at Turin.

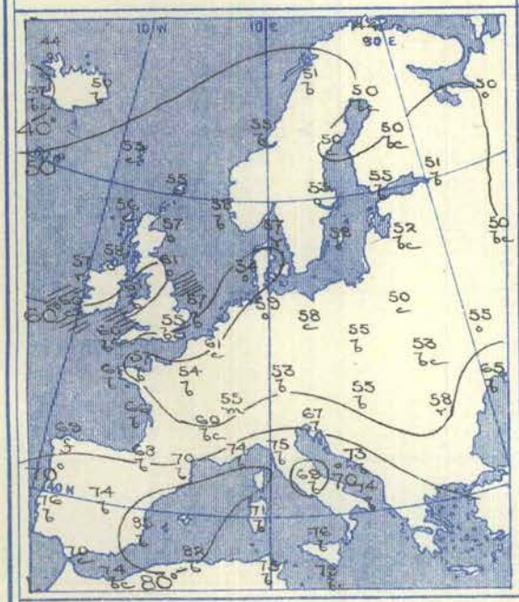
Temperature risen in Ireland and Scotland, fallen in central Europe and France. Morning readings above 70° over a very large area in the south and above 80° at a few stations. Below 60° over the major portion of our area, and below 50° in central England and in London Rising to above 70° later over the southern half of England and to above 80° in a large area in France and southern Europe. Maxima 95° both at Madrid and San Fernando.

Wind in morning high from the South-Westward at Blacksod Point and fresh to strong from that point in the most western and north-western parts of these Islands generally; a gale from the South-Eastward prevailing in the east of Iceland. A moderate to high wind from the Westward general over the Baltic region, and light airs from various quarters over the Mediterranean. Increasing to a gale from between South and South-West by evening or at night on several parts of our north-western and northern coasts, and to a high wind at Holyhead.

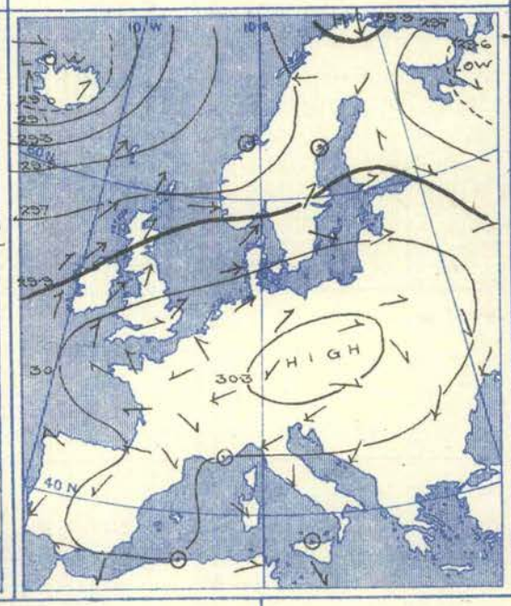
Barometer in morning above 30·2 in. in an anticyclone centred over the north of France and the Netherlands; below 29·5 in. in a depression over the north of Russia, and below 28·6 in. in a deep system centred over the west of Iceland. Pressure decreasing decidedly in the west and north of these Islands during day, but rising again in Iceland. Gradient for South-Westerly winds growing steeper. Russian depression travelling away beyond the White Sea.

Friday, 1st, September 1911.

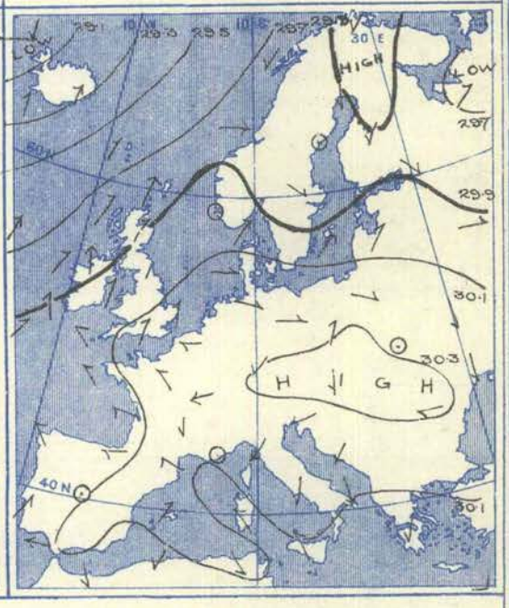
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine generally, but cloudy or overcast in Ireland, Scotland and Scandinavia, with rain in a few localities. Slight to moderate amounts of rain later in all the latter regions, but conditions continuing fine as a whole.

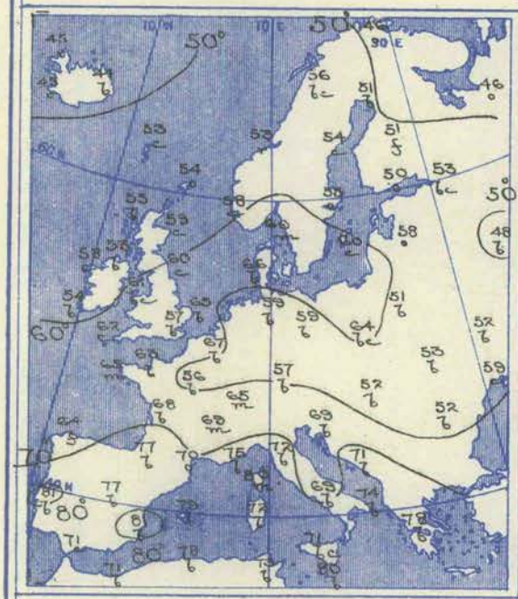
Temperature risen in most parts of these Islands and the Low Countries, fallen or changed irregularly elsewhere. Morning readings about 80° at some stations in the extreme south, but below 60° over the major portion of our area, 50° at Prague and at several places in the north and 44° at Vardö. Rising to 80° during day at Great Yarmouth and in some parts of London, to 90° or slightly higher in many parts of France, and to 97° at Lisbon, Madrid and San Fernando. Thermometer remaining below 80° at nearly all stations in the central countries.

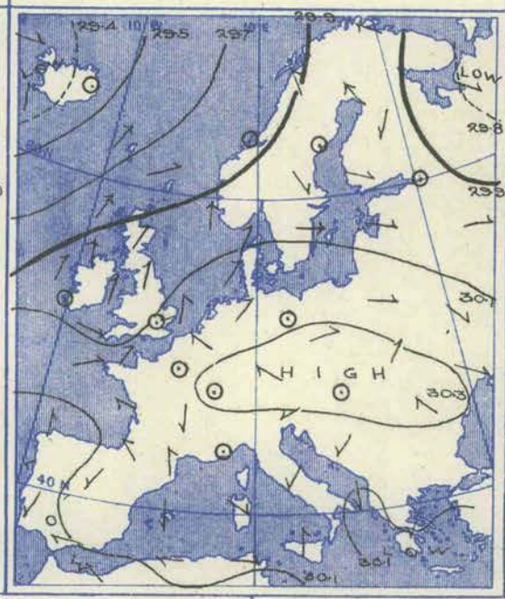
Wind in morning mainly South-Westerly over the United Kingdom, the North Sea and Scandinavia, but drawing into East at Bodö. Fresh to strong in a few places and high at Lerwick, but moderate or light generally. An anticyclonic movement prevailing over all the central regions of Europe and France. Backing towards South later over Ireland and England and increasing to a strong breeze at Holyhead and Malin Head. Decreasing to a moderate breeze at Lerwick.

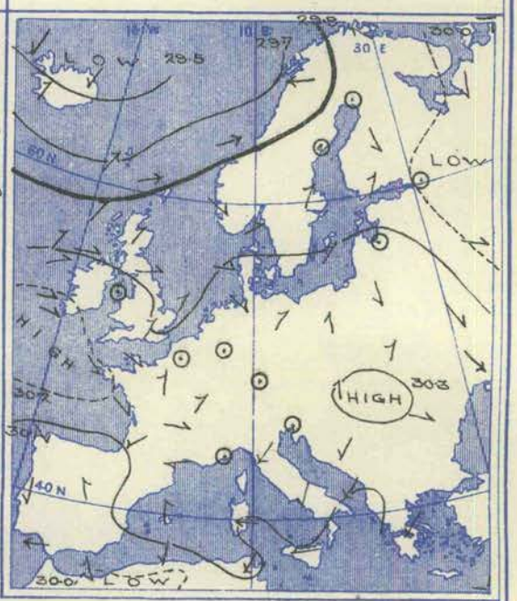
Barometer in morning ranging from above 30·3 in. in a large high pressure system centred over Austria to below 29·6 in. in the north-east of Russia, and to below 29·0 in. in a large depression having its minimum over Iceland. Latter apparently moving away in a North-Westerly direction during day, but pressure giving way somewhat in these Islands. No material change taking place in the distribution on the Continent.

Saturday, 2nd September, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to very bright generally, but foggy at Corunna, overcast at Lerwick, and rainy at Christiansund. Continuing dry and bright throughout in almost all parts of our area, but some rain falling in the north of Norway and Sweden, and also in the extreme north and north-west of Scotland.

Temperature risen in most regions. Morning readings 81° at Lisbon, and 80° at Sanguinaire and Malta, 67° on the south-east coast of England, above 60° on the coast of North Germany, and as high as 56° at Bodö. As low as 52° at Hermanstadt and Buda-Pesth, 48° at Moscow, and 46° in the extreme north of Russia and at Vardö. Maxima very high during day in England; 86° at Oxford, and 89° or 90° in some parts of London. Thermometer rising to above 90° at Brussels and over a large portion of France, and touching 99° at Rochefort and Le Mans.

Wind in morning very light to moderate generally; Westerly in the south-west of England, but Southerly to South-Westerly over these Islands as a whole. Variable or anticyclonic airs prevalent over the greater part of the Continent. Veering towards West during day in most parts of this country, but remaining Southerly in the south-east of England. No general change occurring on the Continent.

Barometer in morning above 30·3 in. in a very extensive anticyclone covering a large portion of central Europe; below 29·8 in. in a depression over the White Sea region, and below 29·4 in. in the west of Iceland. Relatively low in a "hollow" over England. Continental high pressure system giving way somewhat later. A shallow depression such as is often associated with thunderstorms appearing over England and moving slowly Eastward, followed by a decided rise of the barometer in Ireland, Wales and the south-west of England.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	August 27th, 9.45 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	291° 76% 230°, 7·3	287·5° 76% 250°, ?	285·2° 76% 250°, 17	284·6° 76% 250°, 17	282·5° 65% 270°, 17				Overcast Stratus. Kite disappeared in cloud 130 m. above ground. Wind direction by wire.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites	2
Area of Surface (sq. metres) ..	10·5
Capacity of Balloon (cub. metres) ..	—
Length of Wire (metres)	2,300

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 36. THIRTY-SIXTH WEEK, SUNDAY, SEPTEMBER 3RD, TO SATURDAY, SEPTEMBER 9TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was dry and very fine over the Kingdom generally, but thunderstorms occurred locally in Ireland and at Leeds on the 4th, and at several places in the north and east of England on the 8th.

Temperature was again above the average, the difference being very large in most parts of England. The highest of the maxima occurred in most localities during the latter half of the week. In the Midland Counties (at Raunds) the thermometer rose on the 8th to 94°, and in England E. (at Cambridge) to 93°, while in England S.E. and S.W. readings of 91° were recorded. At Greenwich Observatory on the 8th the maximum was as high as 94°. In Scotland there was no reading as high as 80°, and in Scotland N. the highest reported was 67°. The lowest of the minima were recorded mostly early in the week, on the 9th at many stations. The readings ranged from 31° in Scotland E. (at West Linton on the 9th) and 34° in Scotland W. to 43° in England E., and to 58° in the English Channel. The lowest grass readings were 26° at Llangammarch Wells, 27° at Crathes, 30° at Balmoral and Colmonell, and 31° at Newton Rigg.

Mean Temperature of the Sea. The water continued warmer than during the corresponding week of last year, the difference on the south-east coasts of England being 7°. The means for the week ranged from about 68° on the east and south-east coasts of England and 63° at Salcombe to 54° at Lerwick.

Rainfall was much less than the average. Over England and Ireland the fall was less than 0·1 inch. Many stations were quite rainless throughout.

Bright Sunshine was greatly in excess generally, but slightly below the normal in Scotland N. The percentage of the possible duration ranged from 73 in England S.W. and Ireland S., 72 in the English Channel and above 60 as a rule in England and Ireland to 44 in Scotland E., and to 26 in Scotland N.

Barometer and Wind. Until late in the week the pressure distribution underwent little change, the most northern and north-western districts being affected by large depressions in the Icelandic regions and experiencing winds from between South-West and West, while over the more southern regions the general conditions were anticyclonic and the winds very light and often rather variable in direction. By Friday, however, a shallow depression had advanced from the westward to the south-west of Ireland and the adjacent portion of the ocean, and as this became modified in form and moved slowly eastward to the Continent the wind shifted to between North-West and North-East over these islands, and blew with the force of a moderate or fresh breeze in exposed places. By the end of the week an anticyclone lay over and to the northward of Scotland, drifting slowly towards the North Sea.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 292.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Very light	Light	Light	Very light	Very light	Very light	Light
	Sunshine ...	Moderate	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 1 week from Sept. 3rd, 1911.	Warmth ...	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Rainfall ...	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1
	Sunshine ...	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

9968 / 450 Wy. & S., Ltd. 9—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SIXTH WEEK—September 3rd to September 9th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	67	38	60·1	50·8	55·3	+ 2·1	93	+ 14	0	0	4	− 1	0·58	−0·41	25	− 1	26	− 1
Eastern																		
1. SCOTLAND, EAST	77	31	65·5	47·5	56·1	+ 1·9	99	+ 13	0	0	2	− 2	0·24	−0·28	42	+ 11	44	+11
2. ENGLAND, N.E.	89	38	70·9	50·0	59·9	+ 4·0	125	+ 27	0	0	1	− 2	0·06	−0·54	59	+ 25	63	+27
3. ENGLAND, EAST	93	43	77·4	53·7	65·0	+ 7·3	161	+ 51	0	0	1	− 2	0·03	−0·45	56	+ 19	60	+20
4. MIDLAND COUNTIES	94	41	77·8	50·1	63·3	+ 6·8	149	+ 47	0	0	1	− 2	0·08	−0·43	56	+ 23	60	+25
5. ENGLAND, S.E.	91	40	78·4	55·0	66·1	+ 7·3	169	+ 51	0	0	1	− 2	0·01	−0·56	60	+ 22	66	+23
Western																		
6. SCOTLAND, WEST	70	34	65·0	48·4	56·3	+ 1·5	100	+ 10	0	0	1	− 2	0·03	−0·91	43	+ 10	46	+11
7. ENGLAND, N.W.	85	38	69·0	50·0	59·1	+ 2·8	120	+ 20	0	0	2	− 1	0·11	−0·59	63	+ 30	67	+33
8. ENGLAND, S.W.	91	38	76·2	55·3	65·3	+ 7·8	163	+ 55	0	0	1	− 3	0·04	−0·67	67	+ 30	73	+33
9 IRELAND, NORTH	73	40	66·9	48·7	57·4	+ 2·2	108	+ 15	0	0	1	− 4	0·01	−0·77	56	+ 28	61	+30
10. IRELAND, SOUTH	82	40	71·3	49·4	59·8	+ 3·4	125	+ 24	0	0	1	− 3	0·06	−0·65	68	+ 36	73	+38
11. ENGLISH CHANNEL	89	58	78·3	61·4	69·4	+ 9·3	192	+ 65	0	0	1	− 2	0·02	−0·54	66	+ 21	72	+23

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 1 Week, September 3rd to September 9th, 1911.

0. SCOTLAND, NORTH	67	38	*	*	*	*	93	+ 14	0	0	4	− 1	0·58	−0·41	25	− 1	26	− 1
Eastern																		
1. SCOTLAND, EAST	77	31	*	*	*	*	99	+ 13	0	0	2	− 2	0·24	−0·28	42	+ 11	44	+11
2. ENGLAND, N.E.	89	38	*	*	*	*	125	+ 27	0	0	1	− 2	0·06	−0·54	59	+ 25	63	+27
3. ENGLAND, EAST	93	43	*	*	*	*	161	+ 51	0	0	1	− 2	0·03	−0·45	56	+ 19	60	+20
4. MIDLAND COUNTIES	94	41	*	*	*	*	149	+ 47	0	0	1	− 2	0·08	−0·43	56	+ 23	60	+25
5. ENGLAND, S.E.	91	40	*	*	*	*	169	+ 51	0	0	1	− 2	0·01	−0·56	60	+ 22	66	+23
Western																		
6. SCOTLAND, WEST	70	34	*	*	*	*	100	+ 10	0	0	1	− 2	0·03	−0·91	43	+ 10	46	+11
7. ENGLAND, N.W.	85	38	*	*	*	*	120	+ 20	0	0	2	− 1	0·11	−0·59	63	+ 30	67	+33
8. ENGLAND, S.W.	91	38	*	*	*	*	163	+ 55	0	0	1	− 3	0·04	−0·67	67	+ 30	73	+33
9. IRELAND, NORTH	73	40	*	*	*	*	108	+ 15	0	0	1	− 4	0·01	−0·77	56	+ 28	61	+30
10. IRELAND, SOUTH	82	40	*	*	*	*	125	+ 24	0	0	1	− 3	0·06	−0·65	68	+ 36	73	+38
11. ENGLISH CHANNEL	89	58	*	*	*	*	192	+ 65	0	0	1	− 2	0·02	−0·54	66	+ 21	72	+23

THE YEAR.—Aggregates, &c., for the Period of 36 Weeks, January 1st to September 9th, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	1849	+216	415	−142	148	−17	32·33	−0·07	1041	+131	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2058	+202	492	−128	127	−10	15·55	−4·54	1214	+131	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2489	+441	371	−104	104	−19	12·97	−3·09	1297	+129	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	2847	+477	409	−112	104	−15	11·68	−3·71	1468	+203	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	2772	+434	415	−118	89	−29	10·39	−6·88	1289	+157	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	2896	+359	361	− 20	89	−24	11·36	−5·32	1566	+284	47	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2312	+319	347	− 78	127	−16	24·64	−5·15	1281	+167	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2546	+379	314	− 72	108	−23	17·24	−4·67	1394	+265	42	+ 8
8. ENGLAND, S.W.	91	13	*	*	*	*	2769	+369	297	− 4	99	−30	17·07	−6·29	1505	+251	45	+ 8
9. IRELAND, NORTH	86	18	*	*	*	*	2299	+219	302	− 43	121	−36	17·80	−6·84	1249	+230	37	+ 7
10. IRELAND, SOUTH	88	18	*	*	*	*	2700	+313	295	+ 36	128	−11	19·47	−6·42	1333	+193	40	+ 6
11. ENGLISH CHANNEL	89	28	*	*	*	*	3051	+338	135	+ 26	104	−32	14·35	−4·89	1675	+153	51	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Dew.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.
The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*60*	*7th*	*48*	*9th*	*56·9*	*49·9*	*53·2*	—	*78*	*0*	*6*	*0·52*	—	*22·8*	—	*24*	—	*Baltasound.*
	a Lerwick	59	5th	48	9th	56·6	51·0	53·7	+ 2·6	82	0	5	0·48	—	18·3	− 7·8	19	− 8	Deerness.
	a Stornoway	64	7th	46	4th	60·1	50·9	55·3	+ 2·6	93	0	6	0·38	− 0·61	26·4	− 1·6	28	− 2	Stornoway.
	a *Castlebay, Barra Isd.*	*60*	*3rd, 4th*	*50*	*9th*	*58·9*	*53·6*	*56·1*	+ *1·8*	*99*	*0*	*3*	*0·51*	—	*20·8*	—	*22*	—	*Castlebay.*
	a Wick	67	7th	45	4th	60·6	?52·4	56·3	+ 3·5	100	0	3	0·35	− 0·25	*	*	*	*	* *
	p Strathpeffer.. ..	67	7th	44	4th	62·6	51·3	56·7	+ 3·7	103	0	3	0·33	− 0·26	32·4	+ 5·1	34	+ 5	Strathpeffer.
	p Glencarron .. S	62	4th	46	9th	58·6	50·1	54·2	+ 2·4	85	0	6	1·73	− 0·12	*	*	*	*	* *
	p Fort Augustus S	63	4, 5, 7th	40	9th	61·0	49·3	54·9	+ 1·2	90	0	2	0·33	− 0·55	22·2	+ 2·2	23	+ 2	Fort Augustus.
	p Fort William S	65	6th	38	9th	61·3	50·6	55·7	+ 1·6	96	0	5	0·48	− 1·08	*	*	*	*	* *
1. SCOTLAND, E. — b, Mainland.	p Gordon Castle S	71	7th	45	4th	65·6	49·9	57·4	+ 3·0	108	0	3	0·46	− 0·15	*35·9*	—	*38*	—	*Gordon Castle.*
	a Nairn	68	6th	43	4th	63·4	49·3	56·0	+ 2·0	98	0	3	0·52	0·00	25·9	—	27	—	Nairn.
	a Aberdeen	76	6th, 7th	44	4th	68·4	49·1	58·3	+ 4·5	114	0	1	0·30	− 0·29	40·1	+ 9·1	42	+10	Aberdeen.
	a Balmoral .. S	77	6th	32	4th	65·3	44·9	54·6	+ 3·5	88	0	1	0·15	− 0·55	42·4	—	45	—	Crathes S.
	p Crieff .. .. S	70	7th	36	9th	66·0	47·3	56·2	+ 1·3	99	0	1	0·15	− 0·65	49·6	—	53	—	Balruddery.
	a Leith	68	6th	43	4th	65·0	50·4	57·4	+ 1·5	108	0	1	0·14	− 0·36	*	*	*	*	* *
	p West Linton.. S	67	7th	31	9th	63·3	42·4	52·4	− 0·5	73	0	1	0·07	—	*29·7*	—	*32*	—	*West Linton.*
	p Marchmont .. S	72	7th	39	9th	67·0	46·4	56·2	+ 2·7	99	0	1	0·09	− 0·59	50·3	+20·4	54	+22	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	74	7th	38	9th	68·4	46·5	56·9	+ 2·5	104	0	1	0·01	− 0·59	59·1	—	63	—	Cockle Park.
	a Shields	73	6th	45	4th, 9th	68·0	49·3	58·2	+ 2·9	113	0	0	0·00	− 0·50	*47·9*	+*22·2*	*51*	+*24*	*Newcastle.*
	p Durham	77	8th	40	4th	69·9	45·8	57·3	+ 1·8	107	0	0	0·00	− 0·49	54·9	+25·2	58	+27	Durham.
	p Rounton .. M	80	7th	41	4th	70·0	46·2	57·5	+ 2·5	109	0	0	0·00	− 0·47	*	*	*	*	* *
	p Scarborough.. M	77	6th	51	4th, 5th	69·7	53·7	61·3	+ 5·1	135	0	2	0·08	− 0·42	62·6	—	67	—	Scarborough.
	p York	78	7th, 8th	44	4th	71·7	50·0	60·3	+ 3·7	128	0	2	0·21	− 0·26	58·5	+28·4	63	+31	York.
	a Spurn Head ..	77	6th	54	5th	68·4	56·4	62·4	+ 4·5	141	0	2	0·09	− 0·29	*	*	*	*	* *
b, South.	a Lincoln	88	8th	47	4th	76·0	50·6	62·7	+ 5·3	145	0	1	0·05	− 0·42	59·3	—	64	—	Skegness.
	a Fulbeck	89	8th	46	4th	75·9	51·1	62·9	+ 5·6	146	0	2	0·12	− 0·34	56·7	—	61	—	Rauceby.
															59·2	—	*64*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	89	8th	53	4th	76·7	55·0	65·9	+ 8·5	167	0	1	0·02	—	56·9	—	61	—	Cromer.
	p Hillington .. M	90	8th	46	4th	77·6	49·9	63·1	+ 5·8	148	0	3	0·14	− 0·44	56·4	+21·0	61	+23	Hillington.
	a Yarmouth	78	8th	53	4th	71·3	56·7	63·7	+ 5·8	152	0	0	0·00	− 0·50	56·7	—	61	—	Yarmouth.
	a Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	* *
	p Geldeston	91	8th	43	4th	79·7	50·1	64·2	+ 6·6	155	0	1	0·03	− 0·45	57·1	+18·1	61	+20	Geldeston.
	p Cambridge	93	8th	47	6th, 7th	80·9	50·5	65·0	+ 6·4	161	0	0	0·00	− 0·46	53·5	+15·5	58	+17	Cambridge.
b, South.	a *Felixstowe*	*78*	*6th*	*53*	*6th*	*73·0*	*57·7*	*65·0*	+ *6·3*	*161*	*0*	*1*	*0·04*	—	*63·3*	—	*68*	—	*Felixstowe.*
	a Clacton-on-Sea ..	78	8th	55	5th	72·9	58·7	65·5	+ 6·8	165	0	0	0·00	—	57·9	—	63	—	Clacton.
	a Rothamsted ..	90	8th	48	4th, 6th	78·0	51·2	64·0	+ 7·3	154	0	1	0·01	− 0·52	58·3	+21·3	63	+23	Rothamsted.
	a *Shoeburyness* ..	*80*	*8th*	*53*	*3rd*	*73·3*	*57·6*	*65·1*	+ *5·4*	*162*	*0*	*0*	*0·00*	− *0·40*	*49·4*	—	*54*	—	*Southend.*
	p Tottenham	92	8th	53	6th, 7th	81·7	56·6	68·6	+10·0	186	0	0	0·00	—	50·8	—	55	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	78	7th	44	4th	68·9	49·1	58·5	+ 3·5	116	0	2	0·08	− 0·49	59·0	—	63	—	Harrogate.
	a Bawtry	85	8th	41	4th	77·4	46·6	61·3	+ 4·7	135	0	2	0·25	− 0·18	51·6	+21·9	56	+24	Worksop.
	p *Buxton* .. M	*82*	*8th*	*40*	*4th, 5th*	*70·7*	*43·9*	*56·7*	+ *1·8*	*103*	*0*	*1*	*0·02*	− *0·91*	*59·2*	—	*64*	—	*Buxton.*
	a Nottingham ..	89	8th	44	4th	76·1	48·3	61·5	+ 4·8	137	0	2	0·12	− 0·36	51·5	—	55	—	Nottingham.
	p Birmingham, Edgbn	89	8th	52	4th	78·5	54·1	65·7	+ 8·0	166	0	1	0·09	− 0·42	54·4	—	59	—	Birmingham.
	a Raunds .. M	94	8th	46	4th, 7th	80·8	50·1	64·7	+ 7·5	159	0	1	0·06	—	*	*	*	*	* *
	a Oxford	92	8th	50	6th, 7th	80·1	53·1	66·0	+ 8·0	168	0	1	0·02	− 0·43	58·6	+21·8	64	+24	Oxford.
b, West.	a Cheadle .. M	85	8th	41	4th	75·1	50·1	62·0	+ 7·1	140	0	2	0·15	− 0·51	50·7	—	55	—	Sheffield.
	p Shrewsbury ..	89	8th	42	4th	78·8	48·0	62·7	+ 5·6	145	0	2	0·04	—	*	*	*	*	* *
	a Hereford .. M	86	8th	46	6th, 7th	77·9	49·2	62·9	+ 5·9	146	0	1	0·06	− 0·44	*	*	*	*	* *
	a Cirencester ..	91	8th	46	6th	80·1	51·1	64·9	+ 9·2	160	0	1	0·02	− 0·58	61·3	+25·5	67	+28	Cirencester.
	a Bath	93	8th	46	7th	82·0	51·9	66·2	+ 8·4	169	0	0	0·00	− 0·59	62·6	—	68	—	Bath.
															58·1	—	*63*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	89	8th	51	6th	79·3	54·8	66·5	+ 8·1	172	0	1	0·02	− 0·48	53·8	+17·0	59	+19	Kew.
	a Marlborough ..	91	8th	40	7th	79·8	45·2	61·7	+ 5·9	138	0	1	0·01	− 0·56	55·8	+21·0	61	+23	Marlborough.
	a Margate	91	8th	61	4, 6, 7, 8	77·6	62·1	69·5	+ 9·8	193	0	1	0·02	− 0·44	57·5	+19·5	63	+21	Margate.
	a Wisley, Surrey ..	91	8th	46	6th	80·4	50·7	64·8	+ 5·9	160	0	1	0·01	—	56·8	—	62	—	Wisley.
	a Swarraton .. M	88	8th	46	7th	79·2	49·4	62·6	+ 6·8	151	0	1	0·01	− 0·55	63·0	—	69	—	Worthing.
	a Tunbridge Wells M	91	8th	52	6th	80·7	54·8	67·1	+ 9·5	176	0	1	0·01	− 0·52	63·2	+23·6	69	+26	Tunbridge Wells.
	a Dungeness	80	8th	52	6th	73·9	55·7	64·4	+ 5·0	157	0	0	0·00	− 0·47	63·6	—	69	—	Littlestone.
	p Hastings	83	8th	59	6th, 7th	77·1	60·8	68·6	+ 9·3	186	0	0	0·00	− 0·59	*68·9*	+*26·4*	*75*	+*29*	*Hastings.*
	p Southampton ..	85	7th, 8th	52	6th, 7th	79·3	54·8	66·5	+ 6·8	172	0	0	0·00	− 0·55	59·1	+17·9	64	+19	Southampton.
	a Ventnor	81	8th	58	7th	76·8	61·3	68·7	+ 8·2	187	0	1	0·02	− 0·55	65·3	+22·1	71	+24	Ventnor.
															64·6	+23·0	70	+25	Eastbourne.
LONDON .. —	a *Westminster* ..	*91*	*8th*	*53*	*6th*	*80·3*	*57·0*	*68·1*	+ *9·2*	*183*	*0*	*1*	*0·01*	− *0·46*	*49·8*	+*17·8*	*54*	+*19*	*Westminster.*
	a *Greenwich*	*94*	*8th*	*50*	*6th*	*81·6*	*54·3*	*67·3*	+ *7·9*	*177*	*0*	*1*	*0·01*	− *0·44*	*54·4*	+*13·9*	*59*	+*15*	*Greenwich.*
6. — a, SCOTLAND. W.	a Poltalloch .. S	66	4th	37	9th	62·1	50·7	56·1	+ 0·9	99	0	3	0·08	− 1·03	*	*	*	*	* *
	p Glasgow	65	4th	45	4th, 9th	62·4	51·1	56·5	+ 2·3	102	0	2	0·03	− 0·79	22·3	− 3·7	24	− 4	Glasgow.
	p Rothesay .. S	68	4th	44	4th, 9th	64·3	50·9	57·3	+ 2·2	107	0	1	0·03	− 1·01	*	*	*	*	* *
	a Kilmarnock ..	67	4th	34	9th	63·9	48·0	55·6	+ 1·2	95	0	2	0·10	—	*30·0*	—	*32*	—	*Kilmarnock.*
	a Colmonell .. S	70	7th	35	9th	66·6	44·1	54·8	− 0·9	90	0	0	0·00	− 0·93	*	*	*	*	* *
	p Dumfries .. S	69	7th	40	4th	67·3	46·3	56·3	− 0·2	100	0	0	0·00	− 0·75	*49·1*	—	*52*	—	*Dumfries.*
	p Cally, Gatehouse S	69	3rd	40	9th	67·6	44·3	55·4	+ 1·3	94	0	0	0·00	− 0·99	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	69	8th	50	4th	65·5	51·6	58·2	+ 3·2	113	0	0	0·00	− 0·90	63·2	+27·3	68	+29	Douglas.
															59·9	—	64	—	Hoylake.
7. — a, ENGLAND, N.W.	p Aspatria	72	7th	42	9th	67·3	48·7	57·6	+ 2·7	109	0	0	0·00	− 0·91	62·4	—	66	—	Aspatria.
	p Newton Rigg ..	74	8th	38	4th	68·2	43·8	55·4	+ 1·8	94	0	0	0·00	− 0·71	67·9	+37·0	72	+39	Newton Rigg.
	p Stonyhurst	73	7th, 8th	43	4th	66·3	49·3	57·4	+ 2·3	108	0	2	0·16	− 0·90	51·3	+20·0	55	+22	Stonyhurst.
	p Blackpool .. M	74	8th	43	4th	66·8	50·0	58·0	+ 1·3	112	0	3	0·09	− 0·67	57·5	+25·0	62	+27	Blackpool.
	p M'nch'ster, Prestwich	85	8th	44	4th	73·7	48·9	60·7	+ 4·9	131	0	2	0·21	− 0·62	*47·7*	+*20·1*	*51*	+*22*	*Prestwich.*
	a Liverpool (Bidston)	76	8th	51	4th, 7th	68·0	53·1	60·2	+ 3·7	127	0	3	0·21	− 0·43	*61·0*	—	*66*	—	*Liverpool.*
	a Hawarden Bridge ..	81	7th	44	4th	70·1	50·2	59·7	+ 2·0	124	0	2	0·10	− 0·42	*56·3*	+*22·3*	*61*	+*24*	*Southport.*
															58·7	—	*63*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	74	7th	49	4th	68·9	53·4	60·8	+ 3·1	132	0	2	0·14	− 0·45	66·3	+33·4	71	+36	Llandudno.
	a Holyhead	71	7th	52	4th	66·9	55·3	60·8	+ 3·8	132	0	2	0·09	− 0·57	74·2	—	80	—	Aberdovey.
	p Bettws-y-Coed ..	81	7th	42	4th	74·0	47·0	59·9	+ 2·9	125	0	1	0·09	—	60·2	—	65	—	Bettws-y-Coed.
															72·5	—	78	—	Aberystwyth.
8. — a, SOUTH WALES	a Llangammarch Wells	86	8th	38	6th	76·5	44·0	59·5	+ 4·6	123	0	2	0·15	—	62·2	—	67	—	Llangammarch Wells.
	a Pembroke	73	7th, 8th	54	7th	70·0	55·7	62·5	+ 5·1	144	0	3	0·04	− 0·64	71·2	+33·2	77	+36	Pembroke.
	p Cardiff	88	8th	51	7th	77·7	54·0	65·3	+ 7·5	163	0	1	0·05	− 0·82	*65·0*	—	*71*	—	*Cardiff.*
															74·9	+*36·1*	*81*	+*39*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	91	8th	54	4th, 7th	80·2	55·8	67·4	+ 8·8	178	0	0	0·00	− 0·67	*59·0*	—	*64*	—	*Clifton.*
	a Shaftesbury .. M	88	8th	55	9th	78·9	57·8	67·9	+10·8	181	0	0	0·00	− 0·65	*	*	*	*	* *
	a Arlington	87	8th	48	6th	77·3	54·6	65·4	+ 9·1	164	0	1	0·05	− 1·04	68·5	+27·4	75	+30	Newquay.
	a Cullompton .. M	89	7th	45	6th	82·0	51·0	65·8	+ 8·3	167	0	2	0·05	− 0·58	62·7	+25·5	68	+28	Cullompton.
	a Portland Bill ..	75	5th	58	9th	71·9	61·4	66·4	+ 7·0	171	0	1	0·01	—	*64·0*	—	*70*	—	*Weymouth.*
	p Plymouth	84	7th	54	6th, 7th	77·0	58·5	67·3	+ 8·5	177	0	1	0·02	− 0·62	67·3	+27·3	73	+30	Plymouth.
	p Falmouth	73	5th, 8th	57	6th	70·9	60·3	65·4	+ 6·9	164	0	0	0·01‖	− 0·76	64·7	+22·4	70	+24	Falmouth.
															68·5	—	*75*	—	*Salcombe.*
															66·1	+*25·1*	*72*	+*27*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	66	4th	49	4th	62·0	53·0	57·3	+ 2·0	107	0	1	0·04	− 0·70	*	*	*	*	* *
	a Blacksod Point ..	66	3rd, 9th	48	4th	64·6	53·6	58·8	+ 3·1	118	0	0	0·00	− 1·00	*	*	*	*	* *
	p Markree Castle ..	70	4th, 5th	41	7th	68·4	43·2	55·2	+ 0·6	92	0	0	0·00	− 0·90	54·1	+27·5	58	+30	Markree Castle.
	a Birr Castle	73	7, 8, 9th	40	7th	71·6	45·9	58·1	+ 2·6	113	0	0	0·00	− 0·68	*68·6*	+*38·0*	*74*	+*41*	*Birr Castle.*
b, East.	p Armagh	71	4th, 5th	44	4, 7, 9th	68·9	46·6	57·3	+ 2·3	106	0	1	0·01	− 0·69	58·6	+30·7	63	+33	Armagh.
	a Donaghadee	69	5th, 6th	47	4th	66·0	50·1	57·7	+ 2·0	110	0	0	0·00	− 0·68	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	73	5th	51	7th	68·7	53·2	60·6	+ 3·3	130	0	1	0·07	− 0·56	58·1	+23·6	63	+25	Phœnix Park.
	a Kilkenny	77	7th, 8th	44	6th, 7th	72·9	46·4	59·0	+ 3·0	119	0	1	0·15	− 0·50	*	*	*	*	* *
	a Waterford	78	8th	47	6th	72·7	49·4	60·5	+ 3·7	130	0	1	0·10	− 0·65	*	*	*	*	* *
	a Birr Castle	73	7, 8, 9th	40	7th	71·6	45·9	58·1	+ 2·6	113	0	0	0·00	− 0·68	68·6	+38·0	74	+41	Birr Castle.
b, West.	a Foynes	75	9th	49	3rd, 9th	70·3	50·7	60·0	+ 3·4	126	0	0	0·01‖	− 0·76	*	*	*	*	* *
	a Cahir .. .. M	78	8th	43	7th	73·4	47·1	59·6	+ 3·3	123	0	1	0·08	—	*	*	*	*	* *
	a Killarney	82	7th	44	3rd	77·7	49·6	63·0	+ 6·7	147	0	1	0·01	− 0·95	*	*	*	*	* *
	a Valencia	76	8th	47	3rd, 7th	67·7	48·9	57·9	+ 0·8	111	0	0	0·00	− 1·04	78·1	+46·2	84	+50	Valencia.
	a Roche's Point ..	73	8th	51	6th	67·0	53·1	59·7	+ 2·5	124	0	3	0·08	− 0·70	67·9	—	74	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	74	6th, 7th	58	6th, 9th	70·1	60·1	64·9	+ 5·5	160	0	0	0·00	− 0·60	46·9	+ 3·1	51	+ 3	Scilly.
	a Jersey, St. Aubins ..	89	7th	?60	6th	84·3	?62·6	72·9	+11·5	216	0	0	0·00	− 0·60	77·3	+30·3	84	+33	St. Heliers.
	a Guernsey	89	8th	58	6th, 7th	80·5	61·5	70·5	+ 9·8	200	0	1	0·05	− 0·62	74·3	+27·6	81	+30	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 64·2 hrs.* (+*21·4 hrs.*), *70* % (+*23* %); *Bournemouth, 64·6 hrs., 70* %; *Bognor,* *hrs.*, %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	54·3	—
	— —				
	— —				
1.	Aberdeen	—	—	—	55·1
	Crathes	1	27	57·3	55·9
	Balmoral	1	30	—	—
	West Linton	—	—	—	—
	Marchmont	0	33	55·9	—
2.	Cockle Park	0	34	57·7	56·6
	Durham	0	35	—	—
	York	—	—	59·4	58·9
	Hull	0	39	59·0	58·0
	Lincoln	—	—	62·0	59·3
	Rauceby	0	39	64·8	61·0
3.	Norwich				
	Yarmouth	—	—	66·7	64·0
	Lowestoft	0	50	64·2	61·6
	Cambridge	0	40	65·3	63·0
	Clacton-on-Sea	0	48	64·4	61·8
	Southend	0	52	69·9	—
	Tottenham	0	44	—	65·4
4.	Harrogate	0	36	57·6	57·3
	Huddersfield	0	37	60·8	59·3
	Buxton	0	36	60·5	57·3
	Sheffield	0	38	61·0	58·2
	Nottingham	0	41	61·6	61·4
	Birmingham	0	37	59·9	56·3
	Oxford	0	—	—	—
	Hereford	0	35	—	—
	Cirencester	0	44	63·2	60·0
	Bath				
5.	Margate	0	51	64·9	62·7
	Greenwich	0	40	—	—
	Westminster	0	49	—	—
	Kew	0	42	64·1	60·5
	Canterbury	0	47	65·8	64·9
	Tunbridge Wells	0	44	63·9	—
	Wisley	0	39	64·7	63·0
	Worthing	0	48	65·2	63·1
	Portsmouth	0	46	66·3	64·5
6.	Glasgow	0	36	—	—
	Rothesay	—	—	—	56·0
	Colmonell	1	30	—	—
6.	Dumfries	0	32	59·6	60·0
	Douglas	0	46	—	—
7.	Aspatria	0	36	58·0	56·1
	Newton Rigg	0	31	58·3	57·0
	Burnley	0	34	58·0	57·3
	Southport	0	35	61·2	61·8
	Manchester City	0	44	61·2	62·5
	Bettws-y-Coed	0	41	57·1	57·0
8.	Llangammarch Wells	4	26	59·0	57·4
	Cardiff	0	41	63·7	61·9
	Clifton	0	49	—	—
	Plymouth	0	45	66·9	—
9.	Armagh	0	36	59·6	58·6
	Markree	0	34	60·0	58·0
10.	Dublin, Trin. Coll.	0	38	61·2	59·8
11.	Guernsey, Brooklyn	0	49	67·7	64·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	54	54	54·0
	Kirkwall	55	55	55·0
	Wick	56	54	55·0
SCOTLAND E.	Cromarty	58	57	57·6
	Pennan Bay	58	55	56·2
	Aberdeen, Cove Bay	55	55	55·0
ENGLAND, N.E.	Burnmouth, Berwick	55	54	54·7
	Scarborough	64	57	59·9
ENGLAND, E.	Shipwash Lightship	71	65	67·5
	Margate‡	69	67	67·6
ENGLAND, S.E.	Eastbourne‡	68	68	68·0
SCOTLAND, W.	Lamlash	61	56	58·2
	Ballantrae	63	50	57·5
ENGLAND, N.W.	Port Erin	61	58	59·5
ENGLAND, S.W.	Newquay	64	62	62·6
	Scilly	63	58	60·7
	Plymouth‡	63	62	62·3
	Salcombe	64	62	63·0
IRELAND, N.W.	Sheephaven	60	60	60·0
	Teelin	63	58	60·5
IRELAND, S.W.	Cleggan	62	56	59·3
	Seafield	64	58	60·7
IRELAND, E.				

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

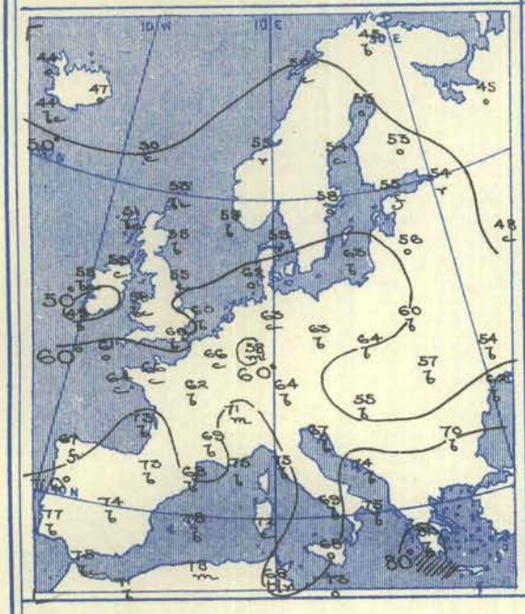
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 3rd September, 1911.

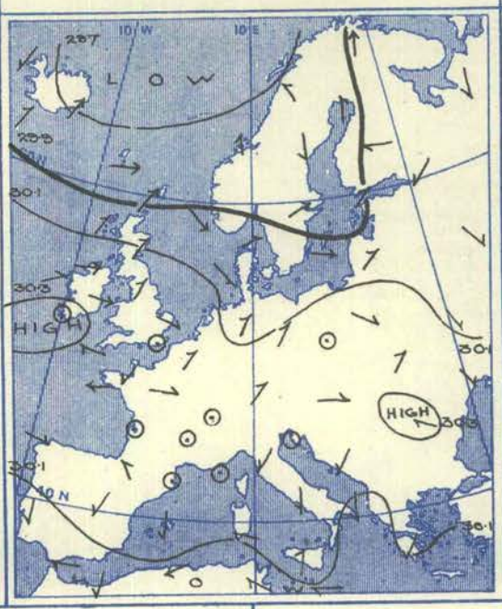
Temperature and Weather.

7 a.m.

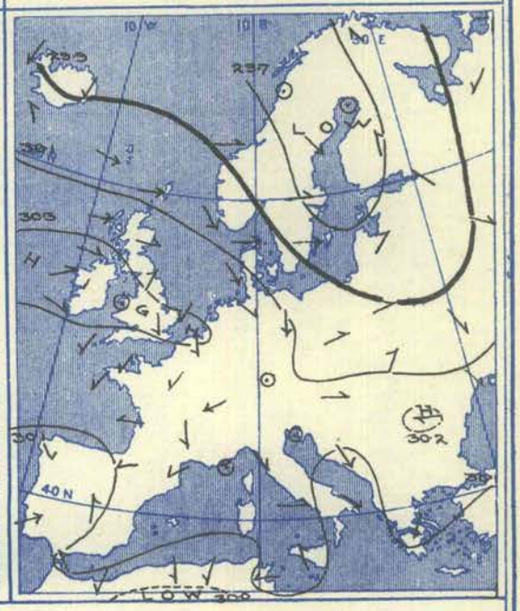


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine generally, but rain falling at Christiansund and St. Petersburg and thunderstorms in progress at Cape de Garde and Tunis. Slight rain later in various parts of these Islands and heavy falls in some parts of Scandinavia, Finland, and at Cape de Garde. Continuing fine elsewhere.

Temperature risen over a considerable portion of the Continent, fallen in the west and north of these Islands. Morning readings 60° or above in the south of England and at most stations on the Continent as far north as Copenhagen; above 70° over a wide area on the Mediterranean; 81° at Athens and 84° at Barcelona. As low as 49° on the south-west coast of Ireland, 47° at Birr Castle, and 45° in the extreme north of the Continent. Maxima during day above 75° at many English stations, 82° at Jersey, above 90° in various parts of France, Spain and Portugal, and also in a few localities in Germany.

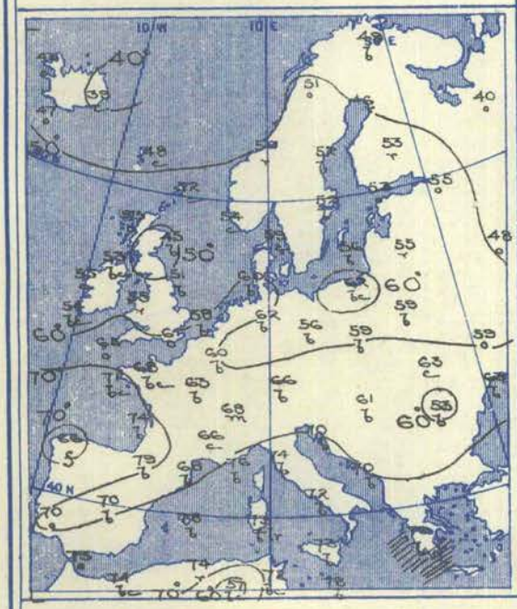
Wind in morning mainly Westerly in the United Kingdom, light or moderate as a whole, but fresh or strong locally in the north. A partial cyclonic movement prevailing over the northern regions of the Continent, but light cyclonic airs general over the central countries, France, and the Bay of Biscay. Increasing in force from the Westward during day over the south of Scandinavia and the Baltic and reaching a gale at Wisby. A high wind from the North-Eastward setting in at Athens.

Barometer in morning below 29·7 in. in a large depression having its minimum between northern Norway and Iceland; above 30·3 in. in the south-west of Ireland and also in Transylvania, and relatively high over the intervening region. Northern depression moving rather quickly eastward during day, and pressure increasing very briskly in its rear. No very material change taking place over the southern half of our area.

Monday, 4th September, 1911.

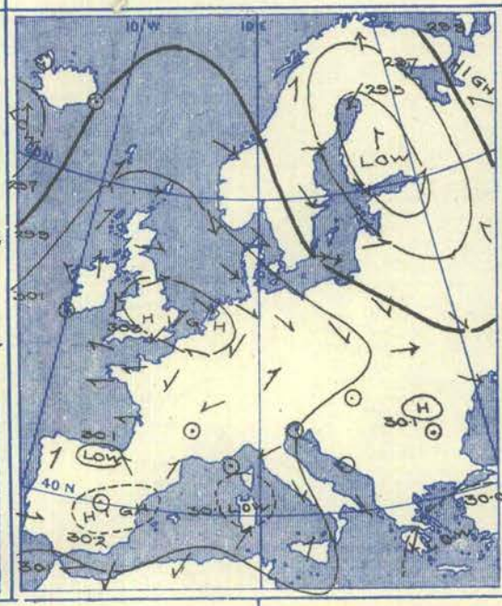
Temperature and Weather.

7 a.m.

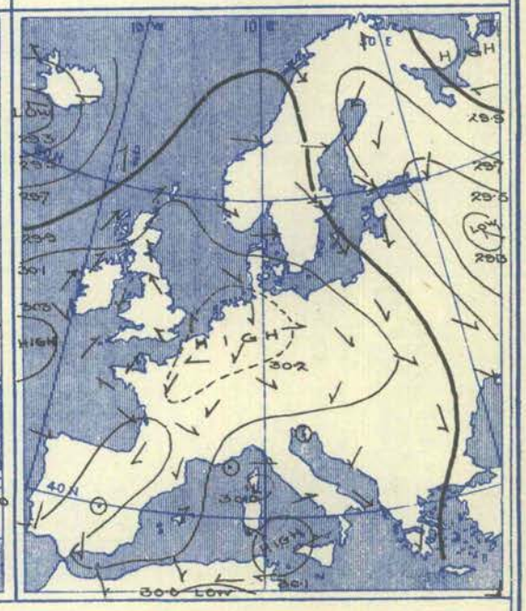


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine over the major portion of our area, but showery on the coast of Wales and rainy in Finland and at Riga; a thunderstorm prevailing at Cagliari and rain falling at Algiers. A little rain later in various parts of the United Kingdom and heavy amounts in the north of Sweden, Finland, and the adjacent part of Russia. Thunderstorms occurring on the French side of the Channel.

Temperature fallen in most regions. Morning readings ranging from above 75° at many stations in the far south and above 60° in the south of England and over large areas on the Continent to below 50° in many parts of Scotland and also in the extreme north and north-east of the Continent. Rising later to above 70° in many parts of these Islands, to 88° at Jersey and to above 90° in France and the Spanish Peninsula. Thermometer touching 99° at some places in the west of France. Maxima below 75° over a large district in central Europe.

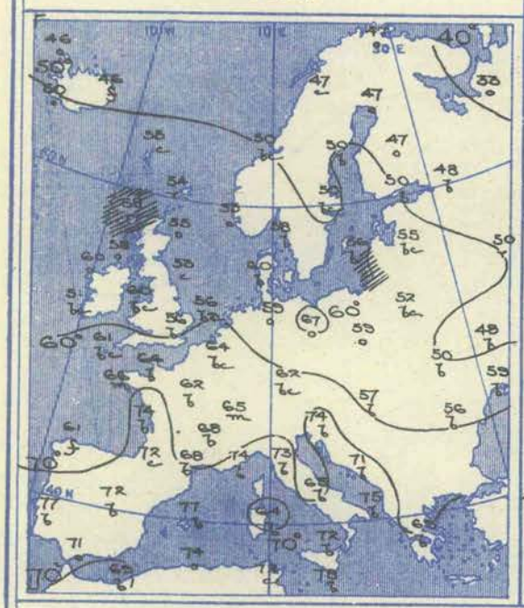
Wind in morning showing a well-marked cyclonic circulation over the northern countries of the Continent and an anticyclonic movement over these Islands and their neighbourhood. North-Westerly current very strong generally over Scandinavia and the Baltic; high at Skagen, and blowing a gale at Wisby. A fresh to strong Northerly breeze prevailing in Greece. No important change in direction later in day, but force decreasing in many regions.

Barometer in morning above 30·3 in. in a large high pressure system centred over England and the Netherlands; below 29·7 in. in a depression to the south-westward of Iceland, and below 29·5 in. in another over Finland. Latter travelling south-eastward during day and becoming deeper, and the former spreading more over Iceland and also affecting the barometer in the north of these Islands. Anticyclonic system decreasing somewhat in intensity, but another approaching the south-west of Ireland.

Tuesday, 5th September, 1911.

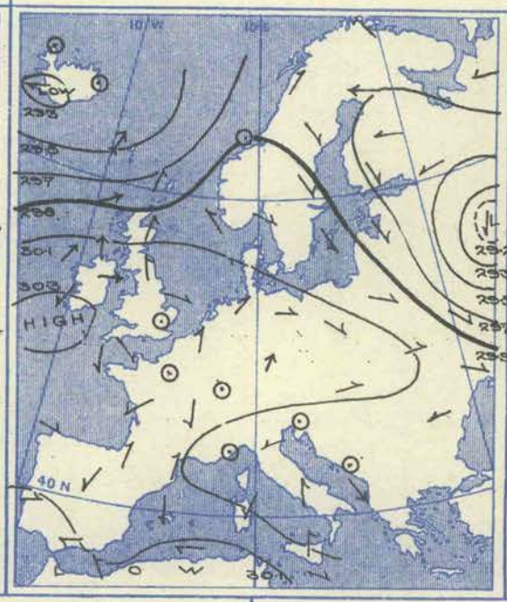
Temperature and Weather.

7 a.m.

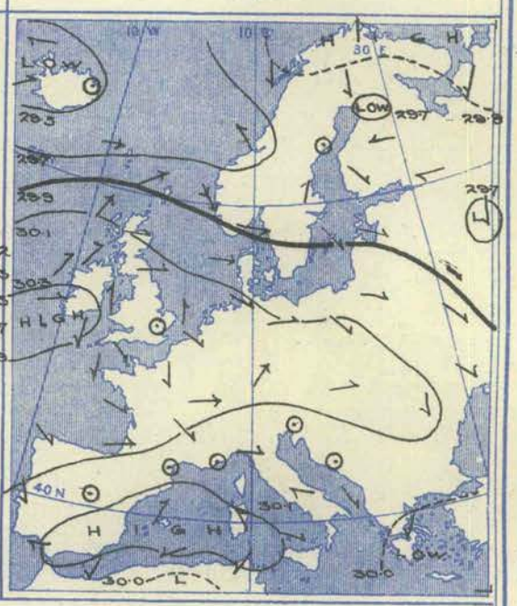


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast in the extreme north and north-west of the United Kingdom and in parts of Russia and Finland, with rain in the Hebrides and Shetland, and also at Ulcaborg and Moscow. Rain experienced later in various parts of Scandinavia and Finland, and also in Algeria. A thunderstorm, with slight rain, occurring at Algiers.

Temperature risen in the north and north-west of these Islands, fallen in many other regions. Morning readings above 70° over a large area in the south and as high as 82° at Barcelona. Below 50° over a considerable portion of Russia and northern Scandinavia, and as low as 33° at Archangel. Rising subsequently to 80° or slightly above in a few parts of southern England and to between 90° and 100° over the greater part of France; thermometer touching 99° at Limoges and 102° at Lorient. Maxima below 75° at most stations in Germany and Austria.

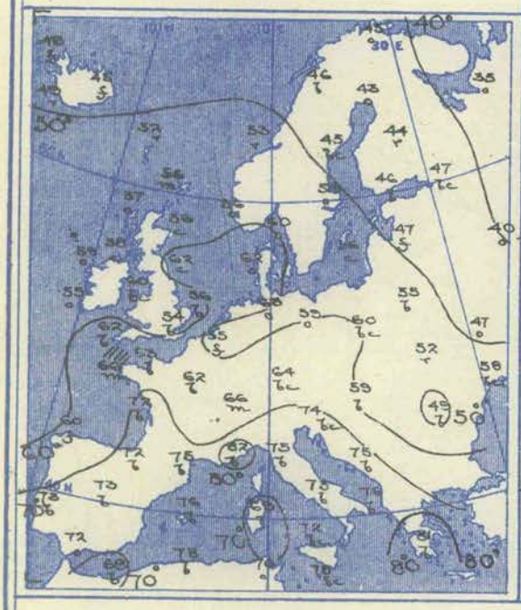
Wind in morning moderate or light from the North-Westward over Russia and the Baltic, strong from the South-Westward in the north of Scotland, and strong to a gale at Thorshaven. A light anticyclonic circulation prevailing over England and the nearer parts of the Continent, and light or moderate cyclonic breezes on the Mediterranean. No great change occurring later, but a gale from the North-Westward springing up at Skudesnaes.

Barometer in morning above 30·1 in. in an anticyclone extending from Poland to the Atlantic and having its maximum off the south-west of Ireland; below 29·2 in. in a large depression centred near Moscow, and nearly as low in another disturbance over Iceland. Relatively low over the Mediterranean. No change taking place later in the general distribution of pressure, but both cyclonic systems becoming less deep, and central area of the anticyclone moving slowly eastward.

Wednesday, 6th September, 1911.

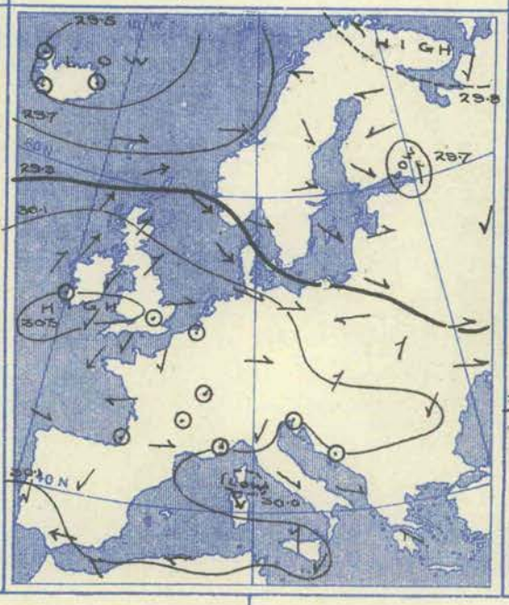
Temperature and Weather.

7 a.m.

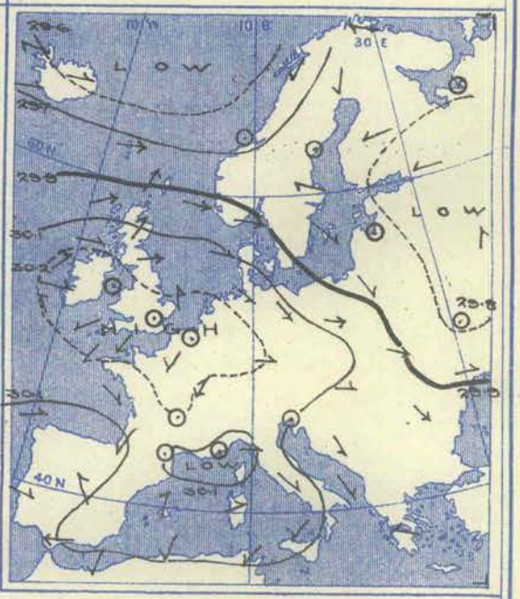


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright very generally, but foggy at Corunna and Pembroke, overcast in the Hebrides, and rainy at Christiansund, Kuopio, and Lemberg. Heavy rain later in the west of Norway and considerable amounts on the Baltic coast of Prussia, at a few places in Austria, and at Warsaw. Continuing dry generally.

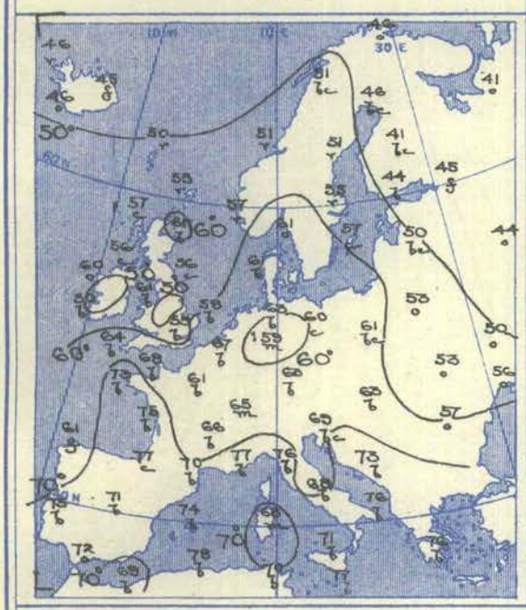
Temperature changed irregularly. Morning readings 87° at Athens, 86° at Barcelona, 82° at Nice, and about 75° at various other southern stations. About 60° in some parts of these Islands and in the south of Norway, but below 50° at Hermanstadt and Kieff, and below 40° in the far north of the Continent. Maxima during day about 85° in some English localities, above 90° in various parts of France, the Spanish Peninsula, and Italy; as high as 99° at some French stations. Thermometer remaining below 80° in nearly all parts of central Europe.

Wind in morning moderate to fresh or strong from the Westward in the north of these Islands and over the greater part of Scandinavia and mostly light and variable over Russia and southern Europe. An extensive anticyclonic circulation prevailing over England, Ireland, France, and the Spanish Peninsula. General air movements remaining very similar throughout the day.

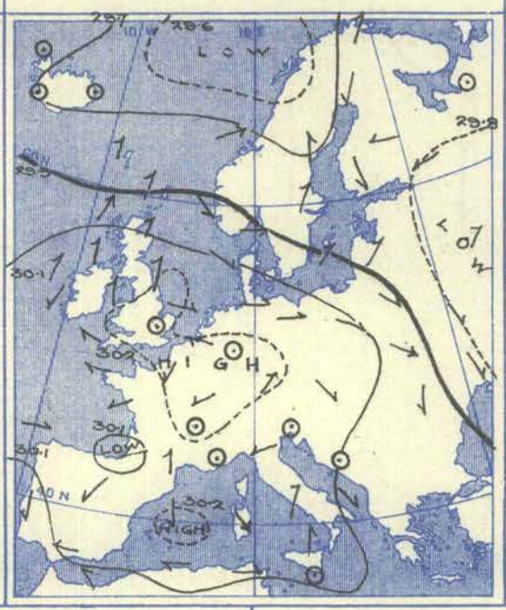
Barometer in morning below 29·5 in. in a large depression of little intensity over Iceland and its vicinity, and below 29·7 in. in a smaller system over the Gulf of Finland. Above 30·2 in. over most of France, the United Kingdom, and a large area on the Atlantic. Little change in the general situation later in day; depressions travelling away or partially dispersing, and anticyclone decreasing somewhat in intensity.

Thursday, 7th September, 1911.

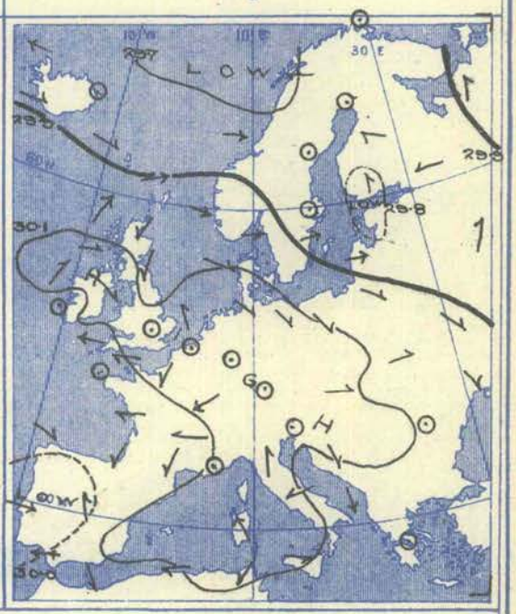
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy to the northward of Scotland, in several parts of Scandinavia, and at Breslau, and overcast very generally over Russia. Fair to very fine elsewhere. Rain experienced later in the extreme north and north-west of Scotland, in Norway, and at Lyons, and thunderstorms at some Algerian stations.

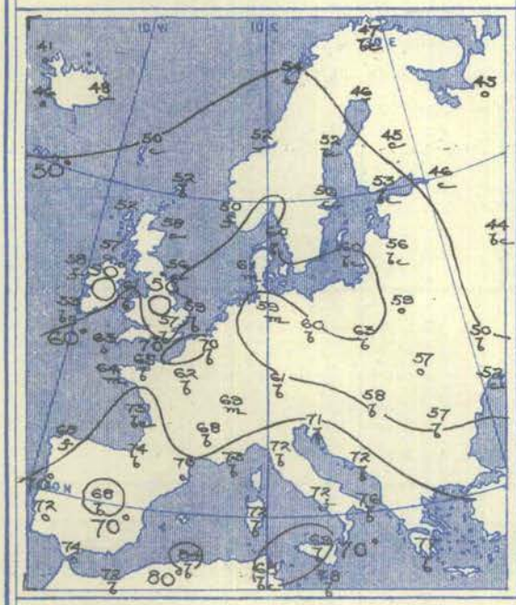
Temperature changed little as a whole; risen in the north of France, the south of England, the Netherlands, and Scandinavia. Morning readings ranging from 86° at Barcelona and above 70° over the Mediterranean generally, 67° at Dover, and 60° in Denmark, the south of Norway, and the east of Scotland, to 49° at Nottingham, 46° at Birr Castle, and to 41° at Kuopio and Archangel. Rising to above 80° very generally in central and southern England, to above 88° in several parts of London, and to 92° at Greenwich. Maxima above 90° over the greater part of France and at various places in Italy and the Spanish Peninsula, about 100° at a few stations on the west coast of France.

Wind in morning mainly anticyclonic and of little force over these Islands, France, and most of central and southern Europe; cyclonic in the north and east of our area. Westerly current fresh to strong over the southern half of Scandinavia; latter decreasing somewhat in strength by evening but little other change occurring.

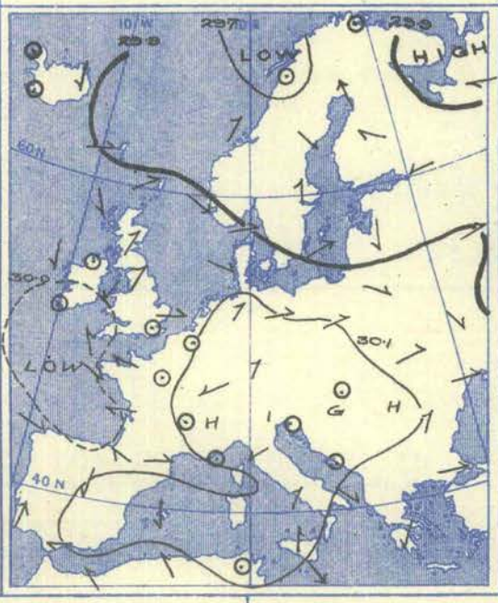
Barometer in morning above 30·2 in. in a very large high pressure system having its maximum over England and the nearer part of the Continent; below 29·8 in. in a large depression over Russia, and below 29·6 in. in another having its centre off the north-west of Norway. No great modification taking place during day in the general situation, but pressure giving way slowly within the anticyclonic system.

Friday, 8th September, 1911.

Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.

Weather in morning fair to bright generally, but cloudy or dull in the north of Scotland, with rain in places, and also over the greater part of Scandinavia. Rain later in Scotland and in a few localities in Ireland, Wales, and England and also in Scandinavia and Finland. Thunder and lightning occurring at various places in the south of France, but no rain falling. Thunderstorms experienced at some stations in the north and north-east of England.

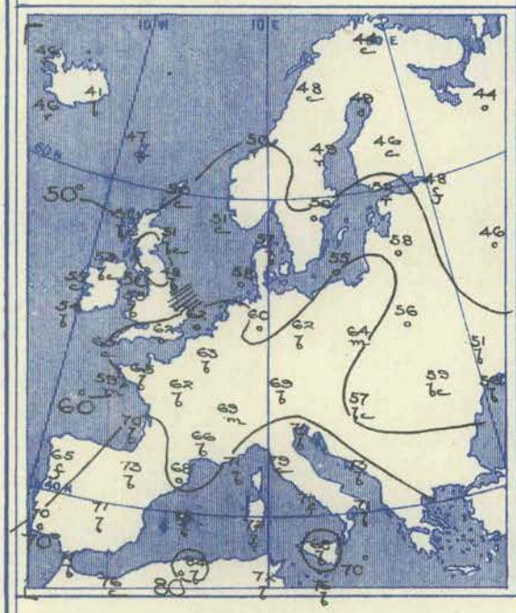
Temperature risen in most parts of these Islands. Readings in morning 47° at Birr Castle, 49° at Nottingham, about 60° at many of our coast stations, 68° at Dover, and 69° at Newquay. Continental readings ranging from 85° at Barcelona, 84° at Algiers, and above 70° in the south generally to 60° in the north of Denmark, and to 44° at Moscow. Maxima during day very high in England; 94° at Greenwich, between 90° and 94° in the Metropolis generally, 93° at Bath, 92° at Oxford, and 89° at Nottingham and Birmingham. Thermometer rising to above 90° over a very large area in France, and touching 100° at Bordeaux.

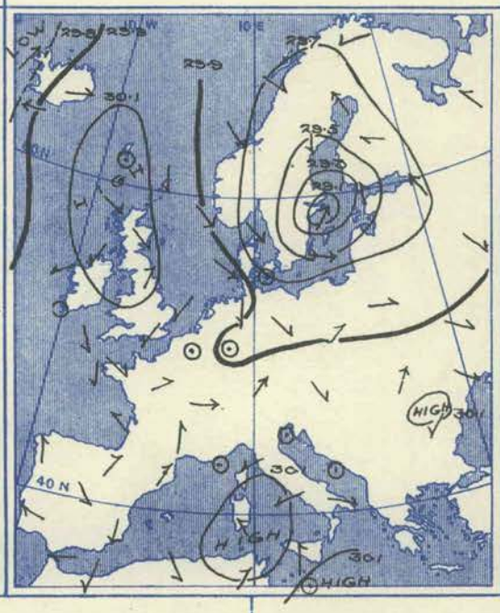
Wind in morning light and rather variable over a large portion of our area, but mainly cyclonic except over Central Europe and the Mediterranean; Westerly current fresh on the Skager Rack. Wind becoming more generally Northerly over these Islands by evening or during night, but not much change taking place over our area as a whole.

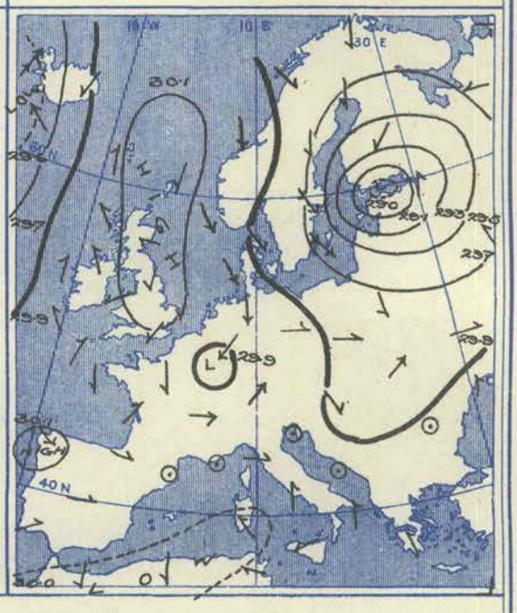
Barometer in morning below 30·0 in. in a large depression of little intensity over the south of Ireland and the Bay of Biscay, and below 29·7 in. in a disturbance centred near Bodö. Above 30·1 in. in an anticyclone of irregular form having its main portion over the central countries. Barometer falling briskly in Scandinavia during day, and rather decidedly in the south and east of England. Gradient for Northerly and North-Westerly winds increasing over the North Sea and its neighbourhood.

Saturday, 9th September, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning cloudy or overcast in most parts of England, Holland and Scandinavia, with rain at Christiansund and Haparanda. Fair to very fine generally elsewhere, but foggy at Corunna, Rome and Naples. Rain experienced in Sweden, Finland and Northern Russia, Germany and Austria; 0·8 in. at Stockholm and 1·3 in. at Helsingfors. Thunder and lightning occurring in some French localities, but no rain falling.

Temperature fallen in most regions. Morning readings ranging from 85° at Barcelona, 84° at Algiers, and above 75° at some other stations in the far south to 66° on the south-east coast of England, below 50° in central Ireland and in many Scottish localities, and to below 45° in the extreme north of the Continent. Maxima during day below 70° in most parts of England but above 90° at most French stations; 96° at Paris, 99° at Bordeaux. Thermometer rising to above 80° in various parts of central Europe.

Wind in morning showing a well-marked cyclonic circulation over Scandinavia; North-Westerly current moderate to high in Norway and Denmark, and that from West blowing a strong gale at Wisby. Light or moderate Northerly winds prevailing in Scotland and Ireland, and light to fresh North-Easterly wind in England. Light or moderate breezes from various points general over the Mediterranean region. A gale from the North-Westward throughout the day and evening on the Baltic, and strong winds over the south of Norway. A gale or high wind from the Southward setting in in the west of Iceland.

Barometer in morning above 30·1 in. in an anticyclone centred over Scotland; below 29·1 in. in a large, deep depression having its minimum near Stockholm, and below 29·8 in. to the westward of Iceland and further south on the Atlantic. Anticyclone moving slowly eastward later, and a depression extending over Iceland from the westward. Swedish depression growing deeper and travelling slowly to the Gulf of Finland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
1	1911. Sept. 9th, 4.0 p.m. to 5.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	290·2° 77% 40°, 5·7	288·5° 80% 40°, 12	287·5° 90% 40°, 12					287° 90% 40°, 12	Metres. 600	Half overcast, Fr Cu. Clouds just reached.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites	1
Area of Surface (sq. metres) ..	5
Capacity of Balloon (cub. metres) ..	—
Length of Wire (metres)	1,000

South Kensington, London, S.W. *September 13th, 1911.* W. N. SHAW, *Director.*

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SEVENTH WEEK—September 10th to September 16th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	42	58·7	46·3	52·2	− 0·4	71	− 3	0	0	3	− 1	0·27	− 0·64	28	+ 2	30	+ 3
Eastern																		
1. SCOTLAND, EAST	74	32	61·3	44·1	52·3	− 0·9	72	− 8	0	− 1	2	− 1	0·08	− 0·36	26	− 4	29	− 4
2. ENGLAND, N.E.	83	36	63·0	48·1	55·2	+ 0·2	92	0	0	0	3	0	0·68	+ 0·22	34	+ 1	38	+ 1
3. ENGLAND, EAST	86	42	69·1	51·6	59·9	+ 3·1	125	+ 21	0	0	3	+ 1	0·35	− 0·04	45	+ 8	51	+10
4. MIDLAND COUNTIES	84	33	66·8	47·7	56·8	+ 1·1	104	+ 8	0	0	2	0	0·44	+ 0·04	42	+ 9	46	+10
5. ENGLAND, S.E.	87	38	69·6	52·8	60·8	+ 2·3	132	+ 20	0	0	1	− 1	0·36	− 0·08	53	+ 15	59	+17
Western																		
6. SCOTLAND, WEST	69	31	60·8	45·3	52·7	− 1·1	75	− 10	0	0	2	− 2	0·14	− 0·64	32	+ 1	36	+ 1
7. ENGLAND, N.W.	76	38	62·8	49·6	55·9	+ 0·2	97	+ 1	0	0	3	0	1·24	+ 0·67	35	+ 3	39	+ 3
8. ENGLAND, S.W.	77	28	65·4	51·7	58·3	+ 1·4	114	+ 10	0	0	2	0	0·59	+ 0·02	41	+ 5	46	+ 6
9 IRELAND, NORTH	71	41	61·1	49·1	54·8	+ 0·1	90	+ 1	0	0	3	0	0·27	− 0·34	27	− 1	30	− 1
10. IRELAND, SOUTH	75	37	62·4	49·8	55·8	− 0·1	97	0	0	0	2	− 1	0·62	+ 0·02	29	− 4	32	− 4
11. ENGLISH CHANNEL	83	51	69·5	58·8	63·9	+ 4·3	153	+ 30	0	0	1	− 2	0·67	+ 0·19	50	+ 4	56	+ 4

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 2 Weeks, September 3rd to September 16th, 1911.

0. SCOTLAND, NORTH	68	38	*	*	*	*	164	+ 11	0	0	7	− 2	0·85	− 1·05	53	+ 2	29	+ 1
Eastern																		
1. SCOTLAND, EAST	77	31	*	*	*	*	171	+ 5	0	− 1	4	− 3	0·32	− 0·64	68	+ 7	37	+ 4
2. ENGLAND, N.E.	89	36	*	*	*	*	217	+ 27	0	0	4	− 2	0·74	− 0·32	93	+ 26	51	+14
3. ENGLAND, EAST	93	42	*	*	*	*	286	+ 72	0	0	4	− 1	0·38	− 0·49	101	+ 27	56	+15
4. MIDLAND COUNTIES.. ..	94	33	*	*	*	*	253	+ 55	0	0	3	− 2	0·52	− 0·39	98	+ 32	54	+18
5. ENGLAND, S.E.	91	38	*	*	*	*	301	+ 71	0	0	2	− 3	0·37	− 0·64	113	+ 36	62	+20
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	175	0	0	0	3	− 4	0·17	− 1·55	75	+ 11	41	+ 6
7. ENGLAND, N.W.	85	38	*	*	*	*	217	+ 21	0	0	5	− 1	1·35	+ 0·08	98	+ 34	54	+18
8. ENGLAND, S.W.	91	28	*	*	*	*	277	+ 65	0	0	3	− 3	0·63	− 0·65	108	+ 35	60	+20
9. IRELAND, NORTH	73	40	*	*	*	*	198	+ 16	0	0	4	− 4	0·28	− 1·11	83	+ 27	45	+15
10. IRELAND, SOUTH	82	37	*	*	*	*	222	+ 24	0	0	3	− 4	0·68	− 0·63	97	+ 31	53	+17
11. ENGLISH CHANNEL	89	51	*	*	*	*	345	+ 95	0	0	2	− 4	0·69	− 0·35	116	+ 25	64	+14

THE YEAR.—Aggregates, &c., for the Period of 37 Weeks, January 1st to September 16th, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	1920	+213	415	−142	151	−18	32·60	−0·71	1069	+134	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2130	+194	492	−129	129	−11	15·63	−4·90	1240	+127	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2581	+441	371	−104	107	−19	13·65	−2·87	1331	+130	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	2972	+498	409	−112	107	−14	12·03	−3·75	1513	+212	44	+ 6
4. MIDLAND COUNTIES.. ..	98	14	*	*	*	*	2876	+442	415	−118	91	−29	10·83	−6·84	1331	+167	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3028	+379	361	− 20	90	−25	11·72	−5·40	1619	+299	48	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2387	+309	347	− 78	129	−18	24·78	−5·79	1313	+167	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2643	+380	314	− 72	111	−23	18·48	−4·00	1429	+268	42	+ 8
8. ENGLAND, S.W.	91	13	*	*	*	*	2883	+379	297	− 4	101	−30	17·66	−6·27	1546	+256	45	+ 8
9. IRELAND, NORTH	86	18	*	*	*	*	2389	+220	302	− 43	124	−36	18·07	−7·18	1276	+229	37	+ 7
10. IRELAND, SOUTH	88	18	*	*	*	*	2797	+313	295	+ 36	130	−12	20·09	−6·40	1362	+189	40	+ 6
11. ENGLISH CHANNEL	89	28	*	*	*	*	3204	+368	135	+ 26	105	−34	15·02	−4·70	1725	+158	51	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 37. THIRTY-SEVENTH WEEK, SUNDAY, SEPTEMBER 10TH, TO SATURDAY, SEPTEMBER 16TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was more or less rainy on Tuesday and Wednesday in nearly all parts of the Kingdom, the falls being heavy on the 12th over a large area in the north-west and north of England and at the Scilly Isles. At many places in the north of England thunderstorms were experienced on the 11th and in a few isolated localities on the 12th.

Temperature was much lower than of late, and differed little from the average over a considerable portion of the Kingdom. Over the southern half of England, however, the mean value was still above the normal. The highest of the maxima, which were recorded early in the week, varied from 87° in England S.E. (at Margate and Tunbridge Wells on the 12th), 86° in England E., and above 80° over the north-eastern and Midland Counties to 69° in Scotland W., and to 68° in Scotland N. After the 12th the maxima were mostly below 65°, and in several northern districts below 60°. The lowest of the minima were recorded at most stations on the 15th or 16th and ranged from 28° in England S.W. (at Llangammarch Wells), 31° in Scotland W., 32 in Scotland E. and 33° in the Midland Counties, to 42° in England E., and to 51° in the English Channel. The lowest grass readings were 14° at Llangammarch Wells, and 22° at Hereford (on the 16th), 27° at Colmonell, and 29° at Glasgow, Balmoral and Plymouth.

Mean Temperature of the Sea continued higher than during the corresponding period of last year, between 6° and 7° higher at Margate and Eastbourne. The means for the week ranged from about 66·5° at Margate, 65° at the Shipwash Lightship and Eastbourne, and 62° at Newquay and Salcombe, to 54° at Berwick and to about 53·5° at Lerwick and Wick.

Rainfall was unequally distributed, but was considerably above the average only in northern England and the English Channel. In Scotland and the north of Ireland there was a large deficiency. More than an inch fell in the north of England on the 12th and also at the Scilly Isles. The highest figures were 1·75 in. at Southport, 1·47 in at Prestwich, 1·43 in. at Holyake, 1·35 in. at Hawarden Bridge and 1·71 in. at Scilly.

Bright Sunshine exceeded the average in England, and also in Scotland W. and N., but was rather less elsewhere. The percentage of the possible duration ranged from 59 in England S., 56 in the English Channel, and 51 in England E. to 30 in Scotland N. and Ireland N., and to 29 in Scotland E.

Barometer and Wind. Both at the beginning and late in the week the distribution was anticyclonic. At first, however, the high pressure was to the eastward of these islands and the winds Southerly, while later it was to the westward and northward and the winds Northerly and North-Easterly. About the middle of the week a shallow depression arrived over this country from the Bay of Biscay, and the winds became more variable in direction. In the rear of this depression and a larger system over Scandinavia the Northerly current increased considerably over these islands and the North Sea.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 300.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Very unusual
	Rainfall ...	Light	Light	Heavy	Moderate	Moderate	Moderate	Light	Heavy	Moderate	Light	Moderate	Heavy
	Sunshine ...	Abundant	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 2 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 0	1 * 0	1 * 0	2 * 0	1 * 0	2 * 0	1 * 0	1 * 0	2 * 0	1 * 0	1 * 0	2 * 0
	Rainfall ...	0 * 1	0 * 1	1 * 1	0 * 1	0 * 1	0 * 1	0 * 2	1 * 1	0 * 1	0 * 2	0 * 1	1 * 1
	Sunshine ...	1 * 0	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	1 * 0	1 * 0	2 * 0	1 * 0	1 * 0	1 * 0

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	2 * 5	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	3 * 2	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	3 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 5	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

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III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*61*	*11th*	*46*	*14, 15, 16th*	*55·6*	*47·8*	*51·5*	—	*67*	*0*	*6*	*0·70*	—	*31·1*	—	*34*	—	*Baltasound.*
	a Lerwick	61	11th	45	15th	55·1	48·0	51·4	+ 0·6	66	0	4	0·28	—	31·4	+ 5·7	35	+ 6	Deerness.
	a Stornoway	64	10th	44	15th	57·4	47·9	52·4	+ 0·4	73	0	7	0·19	− 0·82	25·6	− 1·5	28	− 2	Stornoway.
	a *Castlebay, Barra Isd.*	*60*	*10th, 11th*	*47*	*14th, 15th*	*57·0*	*50·0*	*53·3*	+ *0·3*	*79*	*0*	*5*	*0·20*	—	*23·9*	—	*26*	—	*Castlebay.*
	a Wick	61	11, 12, 13th	?	?	56·7	?	?	?	?	?	3	0·26	− 0·34	*	*	*	*	* *
	b, Mainland. — p Strathpeffer.. ..	68	10th	44	10, 14, 15th	60·9	46·0	53·1	+ 0·8	78	0	1	0·01	− 0·56	26·8	− 0·4	30	0	Strathpeffer.
	p Glencarron .. S	67	10th	42	15th	57·8	44·9	51·0	− 0·1	63	0	5	0·71	− 1·21	*	*	*	*	* *
	p Fort Augustus S	67	10th	43	16th	60·4	45·4	52·5	− 0·4	74	0	?2	0·09	− 0·81	26·9	+ 7·3	30	+ 8	Fort Augustus.
	p Fort William S	65	12th	42	16th	60·5	45·5	52·6	− 0·8	74	0	2	0·33	− 1·32	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	74	10th, 11th	42	16th	62·2	45·1	53·2	− 0·3	78	0	2	0·12	− 0·48	*19·0*	—	*21*	—	*Gordon Castle.*
	a Nairn	71	10th	42	10th	61·0	44·4	52·3	− 0·8	72	0	3	0·07	− 0·43	19·8	—	22	—	Nairn.
	a Aberdeen	69	11th	42	13th	60·1	47·3	53·4	+ 0·2	80	0	3	0·07	− 0·50	27·0	− 2·5	30	− 3	Aberdeen.
	a Balmoral .. S	68	13th	32	13th	62·7	38·9	50·2	+ 0·3	70	9	1	0·01	− 0·65	19·3	—	21	—	Crathes S.
	p Crieff .. .. S	68	10th	39	16th	61·4	43·4	52·0	− 1·9	70	0	1	0·05	− 0·70	34·4	—	38	—	Balruddery.
	a Leith	73	11th	45	10th	61·0	47·6	54·0	− 1·0	84	0	2	0·65	− 0·39	*	*	*	*	* *
	p West Linton.. S	70	10th, 11th	39	10th	59·5	42·4	50·5	− 1·6	60	0	4	0·19	—	*28·8*	—	*32*	—	*West Linton.*
	p Marchmont .. S	72	10th	39	13th	62·6	43·7	52·7	+ 0·2	75	0	1	0·04	− 0·59	29·4	+ 1·1	33	+ 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	67	10th	36	10th	60·0	45·2	52·2	− 1·4	71	0	4	0·94	+ 0·38	29·8	—	33	—	Cockle Park.
	a Shields	68	10th	43	10th, 16th	60·0	45·9	52·6	− 2·0	74	0	4	1·16	+ 0·72	*23·2*	− *1·0*	*26*	− *1*	*Newcastle.*
	p Durham	68	10th	36	12th	60·6	43·6	51·7	− 2·7	68	0	2	0·80	+ 0·35	21·6	− 6·7	24	− 7	Durham.
	p Rounton .. M	70	11th	37	10th	61·1	46·0	53·2	− 0·8	78	0	1	0·69	+ 0·26	*	*	*	*	* *
	p Scarborough.. M	70	11th	49	15th, 16th	61·9	52·6	57·0	+ 1·4	105	0	5	0·84	+ 0·38	44·3	—	49	—	Scarborough.
	p York	80	11th	43	15th	65·6	47·6	56·2	+ 0·4	99	0	2	0·66	+ 0·24	28·1	− 0·6	31	− 1	York.
	b, South. — a Spurn Head ..	69	11th	?48	15th	61·6	54·4	57·8	+ 1·0	111	0	2	0·32	− 0·03	*	*	*	*	* *
	a Lincoln	82	11th	42	15th	67·4	49·3	57·9	+ 1·5	111	0	1	0·38	− 0·04	38·9	—	43	—	Skegness.
	a Fulbeck	83	11th	39	15th	68·7	48·1	57·9	+ 1·5	111	0	2	0·29	− 0·14	40·7	—	45	—	Rauceby.
															47·1	—	*53*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	80	11th	51	15th, 16th	68·5	54·0	60·9	+ 4·4	132	0	5	0·25	—	36·9	—	41	—	Cromer.
	p Hillington .. M	83	11th	42	10th	69·7	48·7	58·7	+ 2·4	117	0	5	0·51	− 0·06	41·3	+ 7·9	46	+ 9	Hillington.
	a Yarmouth	74	12th	51	14th	65·9	56·9	61·2	+ 4·2	134	0	3	0·32	− 0·15	41·5	—	47	—	Yarmouth.
	a Norwich	85	12th	44	15th	69·0	49·8	58·9	+ 1·9	118	0	4	0·22	—	*	*	*	*	* *
	p Geldeston	86	12th	46	10th, 15th	71·1	50·1	60·1	+ 3·5	127	0	3	0·28	− 0·20	42·9	+ 5·7	48	+ 6	Geldeston.
	p Cambridge	86	12th	44	10th	70·9	49·7	59·8	+ 2·5	125	0	3	0·27	− 0·16	48·3	+12·3	54	+14	Cambridge.
	b, South. — a *Felixstowe* ..	*74*	*12th*	*45*	*15th, 16th*	*66·7*	*54·6*	*60·4*	+ *2·7*	*129*	*0*	*1*	*0·48*	—	*57·1*	—	*64*	—	*Felixstowe.*
	a Clacton-on-Sea ..	73	12th	46	15th, 16th	67·4	55·3	61·1	+ 3·6	134	0	1	0·42	—	53·9	—	61	—	Clacton.
	a Rothamsted ..	83	12th	43	16th	68·4	48·5	58·0	+ 2·2	112	0	2	0·36	− 0·14	45·9	+10·9	52	+12	Rothamsted.
	a *Shoeburyness* ..	*79*	*12th*	*45*	*16th*	*68·6*	*54·3*	*61·1*	+ *2·1*	*134*	*0*	*1*	*0·39*	− *0·03*	*48·9*	—	*55*	—	*Southend.*
	p Tottenham	82	11th, 12th	45	15th	70·9	51·0	60·5	+ 2·9	130	0	2	0·52	—	49·7	—	56	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	74	11th	41	14th	62·2	46·4	53·9	− 0·2	83	0	2	0·89	+ 0·31	37·1	—	41	—	Harrogate.
	a Bawtry	83	11th, 12th	40	10th	68·4	43·6	55·4	− 0·1	94	0	1	0·33	− 0·06	34·1	+ 5·7	38	+ 6	Worksop.
	p *Buxton* .. M	*72*	*11th*	*34*	*15th*	*61·7*	*47·0*	*54·0*	+ *1·4*	*84*	*0*	*3*	*0·32*	− *0·55*	*36·6*	—	*41*	—	*Buxton.*
	a Nottingham ..	83	11th	41	10th	67·4	48·4	57·4	+ 1·5	108	0	2	0·46	0·00	42·3	—	47	—	Nottingham.
	p Birmingham, Edgbsn	79	11th	42	16th	66·4	49·5	57·5	+ 1·7	109	0	2	0·13	− 0·35	34·4	—	39	—	Birmingham.
	a Raunds .. M	84	11th	41	10th, 15th	69·3	47·2	57·7	+ 1·7	110	0	2	0·28	—	*	*	*	*	* *
	a Oxford	83	11th	40	16th	69·4	50·4	59·4	+ 2·7	122	0	2	0·36	− 0·07	49·3	+14·5	55	+16	Oxford.
	b, West. — a Cheadle .. M	74	11th	41	16th	65·1	46·5	55·4	+ 1·2	94	0	1	0·51	− 0·11	35·0	—	39	—	Sheffield.
	p Shrewsbury ..	75	10th	36	16th	65·9	47·4	56·2	0·0	99	0	3	0·71	—	*	*	*	*	* *
	a Hereford .. M	75	10th	33	16th	64·6	46·5	55·1	− 1·0	92	0	2	0·36	− 0·10	*	*	*	*	* *
	a Cirencester	78	11th, 12th	42	16th	67·4	49·1	57·8	+ 2·8	111	0	2	0·45	− 0·11	52·2	+18·6	59	+21	Cirencester.
	a Bath	79	12th	38	16th	68·7	49·3	58·5	+ 1·4	116	0	1	0·35	− 0·21	47·8	—	54	—	Bath.
															52·1	—	*59*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	85	12th	46	15th, 16th	70·7	51·6	60·7	+ 2·9	131	0	2	0·53	+ 0·04	47·3	+13·0	53	+15	Kew.
	a Marlborough ..	80	11th	38	16th	68·8	47·2	57·5	+ 2·7	109	0	2	0·28	− 0·26	52·3	+20·5	59	+23	Marlborough.
	a Margate	87	12th	54	16th	70·5	58·8	64·4	+ 5·7	157	0	2	0·73	+ 0·27	49·3	+13·4	55	+15	Margate.
	a Wisley, Surrey ..	84	12th	41	16th	70·0	49·6	59·3	+ 1·7	121	0	2	0·40	—	49·8	—	56	—	Wisley.
	a Swarraton .. M	77	11th, 12th	42	16th	67·9	50·3	58·7	+ 3·0	117	0	1	0·35	− 0·20	57·7	—	65	—	Worthing.
	a Tunbridge Wells M	87	12th	43	16th	70·9	50·3	60·1	+ 3·5	127	0	1	0·66	+ 0·12	56·9	+19·3	64	+22	Tunbridge Wells.
	a Dungeness	78	12th	45	16th	69·1	55·3	61·9	+ 3·2	139	0	1	0·11	− 0·38	51·6	—	58	—	Littlestone.
	p Hastings	78	12th	46	16th	69·8	55·9	62·5	+ 4·0	144	0	1	0·16	− 0·45	*58·8*	+*18·6*	*66*	+*21*	*Hastings.*
	p Southampton ..	77	11th	44	16th	69·2	52·8	60·6	+ 1·9	130	0	1	0·30	− 0·24	52·7	+14·3	59	+16	Southampton.
	a Ventnor	76	11th	44	16th	69·4	55·7	62·2	+ 2·5	141	0	1	0·03	− 0·57	49·9	+ 8·8	56	+10	Ventnor.
															59·5	+19·5	67	+22	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*86*	*12th*	*48*	*15th, 16th*	*71·1*	*54·1*	*62·2*	+ *4·6*	*141*	*0*	*2*	*0·45*	*0·00*	*48·3*	+*19·1*	*54*	+*22*	*Westminster.*
	a *Greenwich*	*88*	*12th*	*45*	*16th*	*71·3*	*50·6*	*60·5*	+ *2·3*	*130*	*0*	*2*	*0·41*	− *0·04*	*50·7*	+*13·1*	*57*	+*15*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	61	10th, 12th	37	15th, 16th	59·4	45·0	51·9	− 2·5	69	0	4	0·22	− 0·91	*	*	*	*	* *
	p Glasgow	67	10th	43	14, 15, 16th	60·1	46·5	53·0	− 0·4	77	0	1	0·14	− 0·63	25·9	+ 1·5	29	+ 2	Glasgow.
	p Rothesay .. S	64	12th	40	15th	61·6	46·9	53·9	− 0·3	83	0	2	0·13	− 0·89	*	*	*	*	* *
	a Kilmarnock	69	11th	32	16th	61·3	40·4	50·4	− 3·2	66	4	1	0·18	—	*31·7*	—	*35*	—	*Kilmarnock.*
	a Colmonell .. S	68	11th	31	16th	62·4	45·1	53·3	− 1·4	79	0	2	0·20	− 0·73	*	*	*	*	* *
	p Dumfries .. S	69	10th, 11th	40	16th	60·6	45·0	52·4	− 2·5	73	0	2	0·03	− 0·69	*33·6*	—	37	—	*Dumfries.*
	p Cally, Gatehouse S	68	11th	37	16th	61·8	42·9	51·9	− 1·1	69	0	1	0·01	− 0·92	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	67	11th	44	16th	59·5	50·5	54·8	+ 0·4	99	0	4	0·17	− 0·73	38·3	+ 3·9	43	+ 4	Douglas.
															39·5	—	44	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	71	10th	41	13th	62·1	46·7	54·0	+ 0·1	84	0	3	0·41	− 0·47	35·1	—	39	—	Aspatria.
	p Newton Rigg ..	69	10th	41	15th	61·4	45·4	53·0	+ 0·6	77	0	2	1·29	+ 0·61	26·5	− 3·1	30	− 3	Newton Rigg.
	p Stonyhurst	70	10th	42	14th, 15th	61·8	48·3	54·7	+ 0·2	89	0	4	1·74	+ 0·74	35·4	+ 5·3	39	+ 6	Stonyhurst.
	p Blackpool .. M	72	10th	38	15th	62·2	48·7	55·1	− 0·7	92	0	3	1·45	+ 0·71	42·0	+11·3	47	+13	Blackpool.
	p M'nch'ster, Prestwich	75	11th	43	15th	65·1	48·8	56·6	+ 1·8	102	0	3	1·54	+ 0·74	*30·9*	+ *4·5*	*34*	+ *5*	*Prestwich.*
	a Liverpool (Bidston)	73	10th	46	15th	62·9	52·0	57·2	+ 1·6	106	0	4	1·52	+ 0·90	*38·4*	—	*43*	—	*Liverpool.*
	a Hawarden Bridge ..	74	10th	44	15th	63·6	51·8	57·4	+ 0·6	108	0	4	1·46	+ 1·00	*46·0*	+*14·2*	*51*	+*16*	*Southport.*
															35·2	—	*39*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	75	10th	49	15th, 16th	63·4	52·8	57·9	+ 1·1	111	0	2	1·34	+ 0·79	30·8	− 0·3	34	0	Llandudno.
	a Holyhead	72	11th	50	16th	61·7	52·4	56·8	+ 0·3	104	0	1	0·68	+ 0·03	37·0	—	41	—	Aberdovey.
	p Bettws-y-Coed ..	76	10th	42	16th	63·6	49·0	56·0	− 0·1	98	0	3	0·92	—	32·3	—	36	—	Bettws-y-Coed.
															43·0	—	48	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	74	10th	28	16th	63·2	44·3	53·3	− 0·8	79	0	3	1·09	—	37·9	—	43	—	Llangammarch Wells.
	a Pembroke	69	10th, 11th	46	16th	63·7	53·9	58·6	+ 1·8	116	0	3	0·66	− 0·02	25·7	− 9·9	29	−11	Pembroke.
	p Cardiff	75	10th	42	16th	65·1	50·2	57·3	+ 0·7	107	0	2	0·57	− 0·27	*42·2*	—	*47*	—	*Cardiff.*
															40·0	+ *3·4*	*45*	+ *4*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	77	10th, 12th	42	16th	67·3	52·3	59·4	+ 1·8	122	0	1	0·61	− 0·02	*42·1*	—	*47*	—	*Clifton.*
	a Shaftesbury .. M	75	12th	42	15th, 16th	65·6	50·3	57·6	+ 1·6	109	0	2	0·33	− 0·31	*	*	*	*	* *
	a Arlington	74	10th	42	15th, 16th	64·0	50·6	57·0	+ 1·6	105	0	2	0·89	− 0·18	47·0	+ 9·0	53	+10	Newquay.
	a Cullompton .. M	76	10th	40	14, 15, 16th	68·1	50·1	58·7	+ 2·3	117	0	2	0·24	− 0·36	39·1	+ 4·4	44	+ 5	Cullompton.
	a Portland Bill ..	71	11th	47	16th	67·0	56·0	61·2	+ 2·5	134	0	1	0·10	—	*47·9*	—	*54*	—	*Weymouth.*
	p Plymouth	73	11th, 12th	42	16th	67·0	54·3	60·4	+ 2·6	129	0	3	0·37	− 0·26	55·3	+17·7	62	+20	Plymouth.
	p Falmouth	71	11th	46	16th	63·4	55·4	59·2	+ 1·5	120	0	3	1·01	+ 0·23	40·8	+ 1·7	46	+ 2	Falmouth.
															44·0	—	*49*	—	*Salcombe.*
															43·7	+ *5·1*	*49*	+ *6*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	66	10th	47	16th	58·6	51·0	54·6	− 0·2	88	0	3	0·30	− 0·42	*	*	*	*	* *
	a Blacksod Point ..	69	10th	45	14th	61·4	50·0	55·4	+ 0·5	94	0	2	0·15	− 0·82	*	*	*	*	* *
	p Markree Castle ..	71	13th	41	14th	62·8	48·2	55·2	+ 1·3	92	0	6	0·36	− 0·50	32·7	+ 7·0	36	+ 8	Markree Castle.
	a Birr Castle	69	11th	42	16th	61·9	47·1	54·1	− 0·5	85	0	2	0·30	− 0·30	*24·4*	− *5·6*	*27*	− *6*	*Birr Castle.*
b, East.	p Armagh	67	10th, 11th	41	14th	61·2	47·3	53·9	− 0·2	83	0	2	0·34	− 0·31	20·6	− 6·7	23	− 7	Armagh.
	a Donaghadee	69	11th	47	14th, 16th	60·6	50·7	55·4	+ 0·3	94	0	2	0·16	− 0·49	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	72	11th	42	16th	62·0	50·0	55·7	− 0·5	96	0	1	0·13	− 0·39	22·7	−11·2	25	−13	Phœnix Park.
	a Kilkenny	73	11th	40	16th	61·3	48·1	54·4	− 0·8	87	0	2	0·24	− 0·36	*	*	*	*	* *
	a Waterford	75	11th	41	15th	64·4	49·4	56·5	+ 0·7	102	0	2	0·27	− 0·43	*	*	*	*	* *
	a Birr Castle	69	11th	42	16th	61·9	47·1	54·1	− 0·5	85	0	2	0·30	− 0·30	24·4	− 5·6	27	− 6	Birr Castle.
b, West.	p Foynes	69	10th	44	16th	61·9	50·4	55·9	+ 0·1	97	0	3	0·10	− 0·60	*	*	*	*	* *
	a Cahir .. .. M	72	11th	43	16th	62·4	50·5	56·2	+ 0·9	99	0	2	1·18	—	*	*	*	*	* *
	a Killarney	70	10th	37	16th	63·1	49·6	56·0	+ 0·4	98	0	3	1·44	+ 0·52	*	*	*	*	* *
	a Valencia	70	10th	44	16th	62·1	51·6	56·6	− 0·1	102	0	4	1·24	+ 0·24	32·3	+ 1·6	36	+ 2	Valencia.
	a Roche's Point ..	70	11th	44	16th	62·4	51·6	56·7	0·0	103	0	3	0·65	− 0·06	36·6	—	41	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	72	11th	51	16th	64·0	56·3	60·0	+ 1·2	126	0	3	2·00	+ 1·40	35·9	− 4·9	40	− 6	Scilly.
	a Jersey, St. Aubins ..	83	10th	56	16th	72·3	60·7	66·2	+ 5·5	169	0	1	0·01	− 0·61	54·4	+10·5	61	+12	St. Helliers.
	a Guernsey	80	10th, 12th	55	16th	72·1	59·3	65·4	+ 5·4	164	0	0	0·00	− 0·70	58·9	+15·9	66	+18	Guernsey.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	52·8	—
	— —				
	— —				
1.	Aberdeen	—	—	—	54·8
	Crathes	1	30	55·1	55·6
	Balmoral	1	29	—	—
	West Linton	—	—	—	—
	Marchmont	0	32	54·6	—
2.	Cockle Park	0	35	54·4	56·2
	Durham	0	34	—	—
	York	—	—	58·6	58·4
	Hull	0	39	58·0	58·0
	Lincoln	—	—	60·2	59·2
	Rauceby	0	36	62·2	61·0
3.	Norwich	0	39	—	—
	Yarmouth	—	—	64·9	64·0
	Lowestoft	0	44	63·1	61·5
	Cambridge	0	34	62·8	62·9
	Clacton-on-Sea	0	42	62·3	61·7
	Southend	0	40	66·7	—
	Tottenham	0	41	—	65·5
4.	Harrogate	0	37	56·7	57·0
	Huddersfield	0	34	59·3	58·8
	Buxton	0	32	58·7	57·2
	Sheffield	0	38	58·5	57·9
	Nottingham	0	38	59·9	61·2
	Birmingham	0	35	57·8	56·6
	Oxford	0	—	—	—
	Hereford	2	22	—	—
	Cirencester	0	38	61·1	60·1
	Bath	—	—	64·0	63·2
5.	Margate	0	51	63·1	62·2
	Greenwich	0	37	—	—
	Westminster	0	42	—	—
	Kew	0	37	62·1	60·3
	Canterbury	0	45	64·5	64·2
	Tunbridge Wells	0	36	62·1	—
	Wisley	1	30	62·1	62·7
	Worthing	0	45	63·5	63·0
	Portsmouth	0	45	64·4	64·1
6.	Glasgow	2	29	—	—
	Rothesay	—	—	—	55·5
	Colmonell	1	27	—	—
6.	Dumfries	0	32	57·6	59·3
	Douglas	0	40	—	—
7.	Aspatria	0	33	55·9	55·9
	Newton Rigg	1	30	58·0	56·5
	Burnley	0	32	56·5	56·9
	Southport	0	35	58·9	60·8
	Manchester City	0	40	60·4	62·0
	Bettws-y-Coed	0	42	55·7	56·3
8.	Llangammarch Wells	3	14	57·9	57·0
	Cardiff	0	37	60·8	61·7
	Clifton	0	38	—	—
	Plymouth	1	29	63·5	63·6
9.	Armagh	0	33	58·5	58·0
	Markree	0	34	58·7	57·8
10.	Dublin, Trin. Coll.	1	30	59·4	59·4
11.	Guernsey, Brooklyn	0	48	66·7	64·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	54	53	53·7
	Kirkwall	55	54	54·7
	Wick	55	52	53·6
SCOTLAND E.	Cromarty	57	53	55·6
	Pennan Bay	57	53	55·8
	Aberdeen, Cove Bay	55	55	55·0
ENGLAND, N.E.	Burnmouth, Berwick	55	53	54·1
	Scarborough	62	49	57·3
ENGLAND, E.	Shipwash Lightship	68	62	65·4
	Margate‡	68	64	66·6
ENGLAND, S.E.	Eastbourne‡	66	64	65·3
SCOTLAND, W.	Lamlash	58	56	56·8
	Ballantrae	63	51	57·4
ENGLAND, N.W.	Port Erin	59	56	57·4
ENGLAND, S.W.	Newquay	62	61	62·0
	Scilly	60	57	58·3
	Plymouth‡	62	61	61·2
	Salcombe	65	59	62·2
IRELAND, N.W.	Sheephaven	60	59	59·1
	Teelin	62	59	60·4
IRELAND, S.W.	Cleggan	62	54	57·5
IRELAND, E.	Seafield	63	55	58·9

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

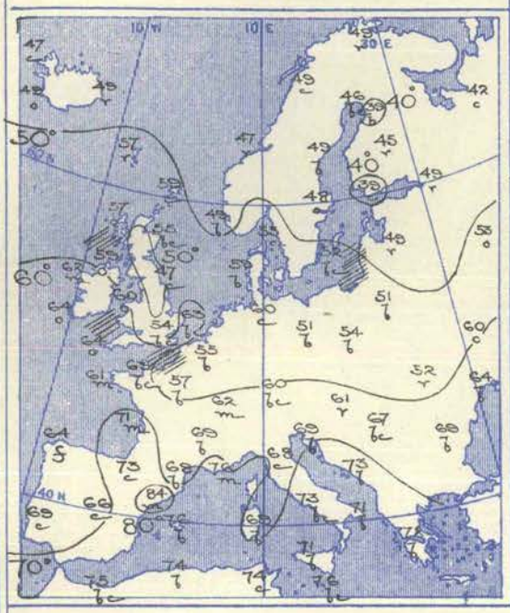
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 10th September, 1911.

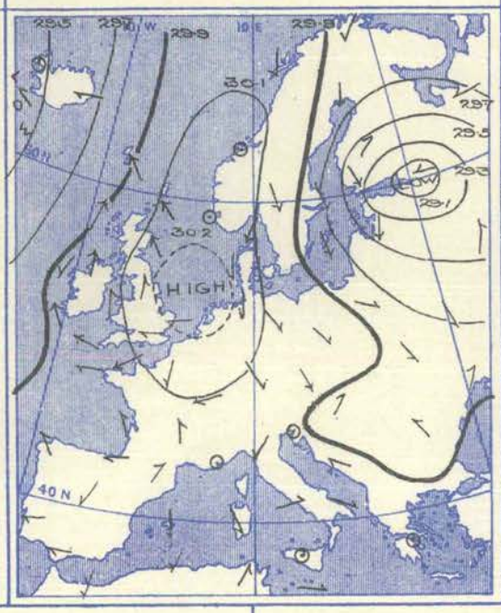
Temperature and Weather.

7 a.m.

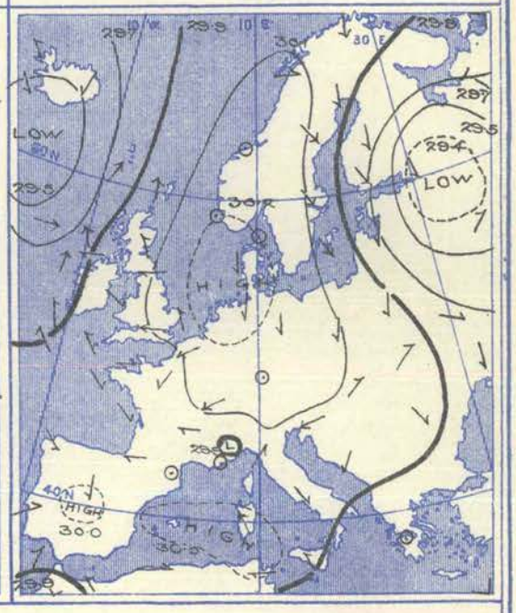


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine generally, but overcast along the extreme western and north-western seaboard of these Islands, rainy at Christiansund, and overcast, with rain in places in several parts of Russia, and also in the neighbourhood of Vienna. Rain later in Ireland, Austria-Hungary, Finland and Russia, some localities in Spain, and at Nemours; 0·6 in. at Valencia Island, 0·8 in. at Nemours, and more than 1·0 in. at Kuopio.

Temperature fallen in most regions. Morning readings ranging from 39° at Uleaborg, below 50° over a very large area in the north generally, and also at several stations in Great Britain to above 60° in Ireland and the south of England, to above 70° at most places on the shores of the Mediterranean, and to 84° at Barcelona. Rising to above 70° during day in many English and Welsh localities, to above 80° very generally in southern Europe, and to above 90° in places. Highest readings, 97° at Cape Sicié and 99° at Cette.

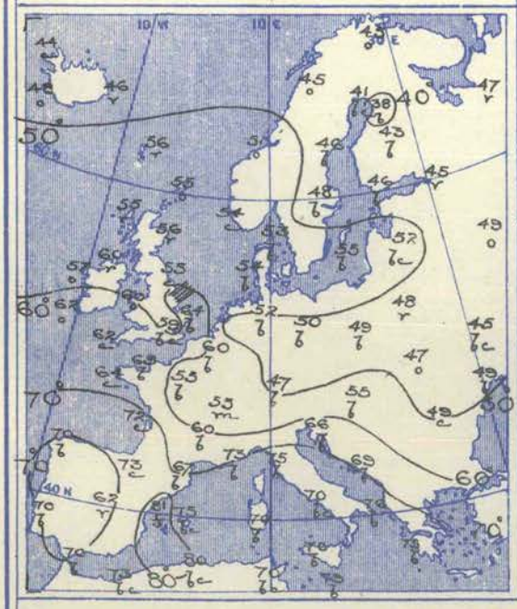
Wind in morning Easterly over the south of England, but Southerly over these Islands as a whole, strong at Portland Bill, moderate or light elsewhere. Light from the Northward in Denmark and Germany, and light and variable over the Mediterranean. An extensive cyclonic circulation prevailing over the north-east of our area, the Northerly current being strong to a gale on the Baltic. No important change during day; decreasing somewhat in force on the Baltic.

Barometer in morning above 30·2 in. in an anticyclone centred over the North Sea; below 29·1 in. in a very large depression having its minimum near St. Petersburg, and below 29·5 in. in the west of Iceland. All barometeric systems moving slowly in an Easterly direction during day, but little modification occurring in the general distribution. Russian depression becoming rather less deep.

Monday, 11th September, 1911.

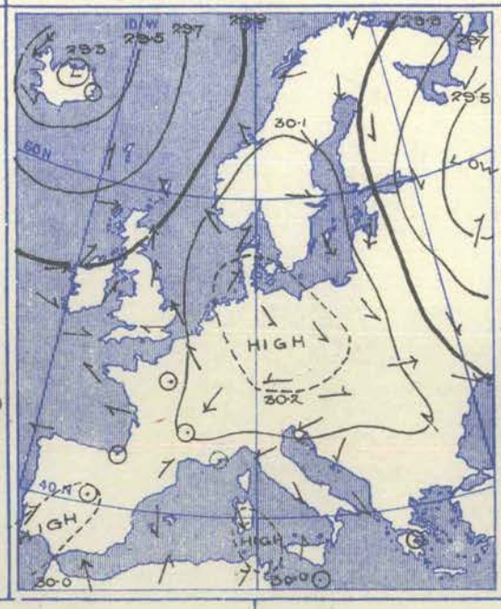
Temperature and Weather.

7 a.m.

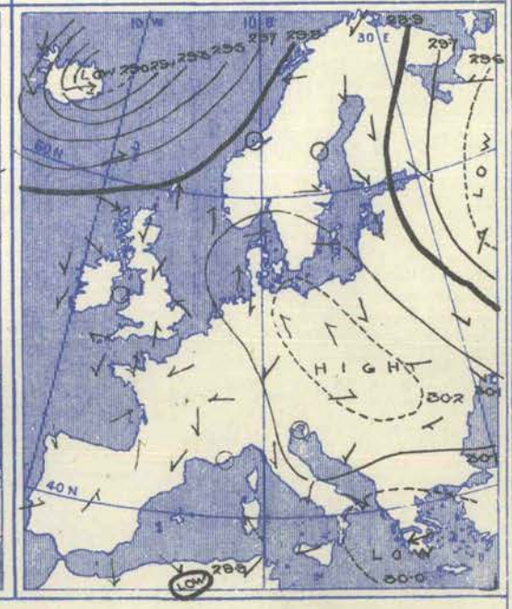


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast in the extreme west and north of these Islands and in the Icelandic region, with rain in places. Overcast, with some rain over a large area in Russia, and also at Madrid. Fair to very fine generally elsewhere. Rain, not generally heavy, experienced later in most parts of the United Kingdom, and also in scattered places in Russia, Scandinavia and Spain. Thunderstorms in Lancashire and North Wales.

Temperature risen over the United Kingdom. Morning readings ranging from 81° at Barcelona, 80° at Algiers, and above 70° over a large portion of the Mediterranean region to 65° in the south and south-east of England, to below 50° in many places in central Europe and Russia, and to below 40° in the north of Finland. Maxima during day above 80° in various places in central and south-eastern England and in nearly all parts of France and southern Europe, about 90° in several French localities, and as high as 95° at Nantes.

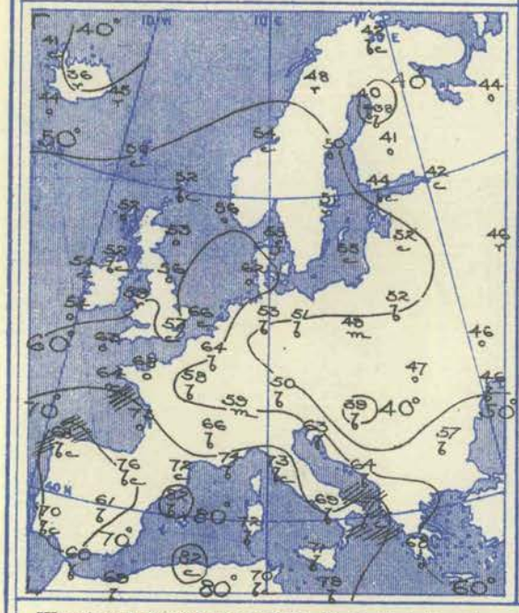
Wind in morning anticyclonic over all the central countries, generally cyclonic elsewhere, but moderate or light in force in most regions. A North-East gale prevailing in the north-west of Iceland, a fresh breeze from West at Stornoway, and a strong breeze from South at Spurn Head. Northerly current fresh or strong on the shores of the Gulf of Finland. Decreasing in force both in Iceland and the Gulf of Finland by evening but increasing to a strong breeze from North-West at Brindisi.

Barometer in morning above 30·2 in. in a large high pressure system centred over Germany, below 29·5 in. in a depression over northern Russia, and below 29·3 in. in another over Iceland. Latter system moving Eastward during day and increasing considerably in intensity. Pressure changing irregularly and becoming more uniform in England and France. High pressure system extending South-Eastward and maintaining its intensity.

Tuesday, 12th September, 1911.

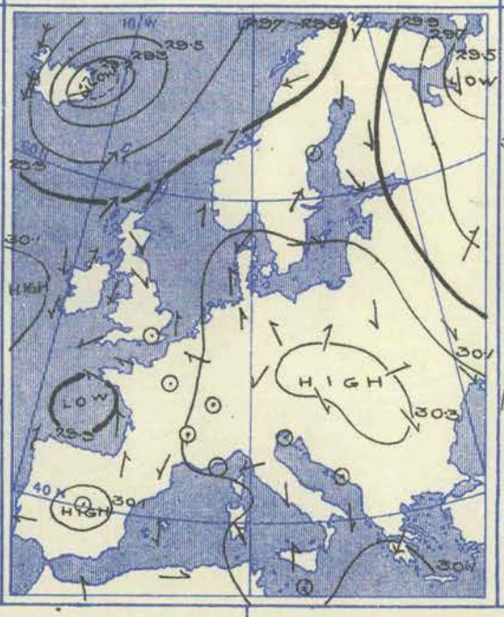
Temperature and Weather.

7 a.m.

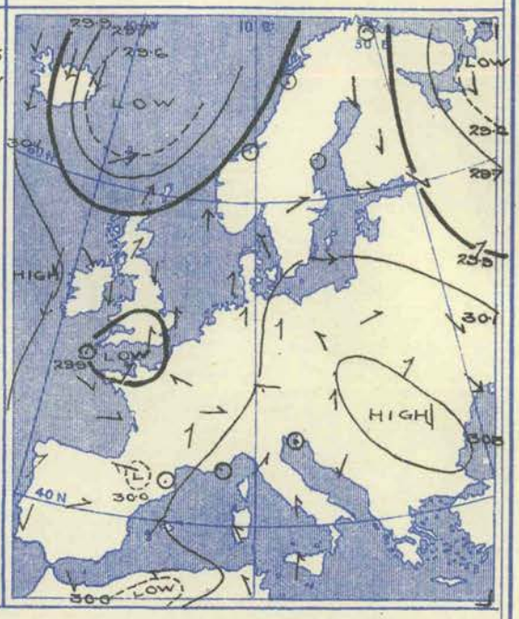


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at Leith, Birr Castle, in the extreme south-west of England, at Brest, Bodö, Stockholm and Moscow, and overcast in a few other places, but mostly fair to fine. Heavy rain subsequently at many places in the west and south-west of England, and considerable falls in several other English localities. As much as 1·7 in. at Scilly, 1·4 in. at Liverpool, and 0·7 in. at Holyhead and North Shields. Slight rain falling in the north-west of France, and a thunderstorm occurring at Le Mans.

Temperature risen in France and Scandinavia, fallen generally over these Islands. Morning readings ranging from 82° at Barcelona and Algiers, and above 70° on the shores of the Mediterranean as a whole, as well as at Dover to below 50° at various stations in central Europe and in most parts of Russia, to 39° at Buda-Pesth, and to 38° at Uleaborg. Thermometer rising to above 80° during day at many places in the south-east of England, to 85° at Kew, 88° at Greenwich, and 89° at Camden Town. Maxima again above 90° in several parts of France.

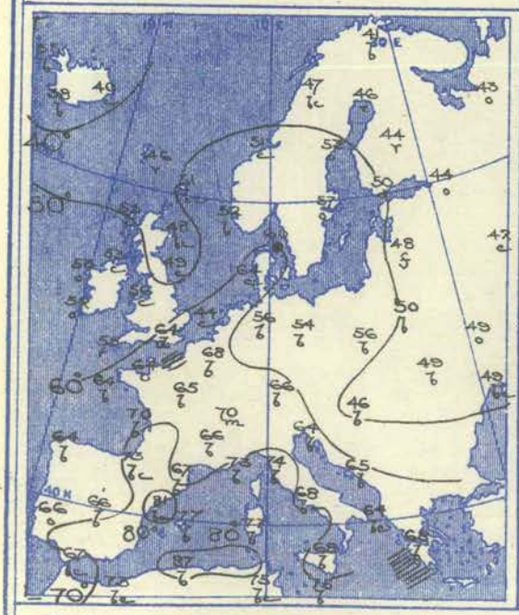
Wind in morning anticyclonic over the central and eastern regions of the Continent, mainly cyclonic elsewhere. Light or moderate generally, but strong to high winds from the Northward at Athens and Brindisi, and a strong gale from that quarter in Iceland. Decreasing in force by evening in most places, but increasing to a strong breeze from South at Skudesnaes. Shifting to the South-Westward or Westward over Brittany and the Channel.

Barometer in morning above 30·1 in. in a very large anticyclone covering much of central and eastern Europe; below 29·9 in. in a depression with slight gradients over the Bay of Biscay, below 29·5 in. in another in the far north-east of Russia, and below 29·2 in. in a third having its minimum a little to the eastward of Iceland. The Bay disturbance moving to the Channel and southern England during day, and the main depression in the north moving slightly in a South-Easterly direction.

Wednesday, 13th September, 1911.

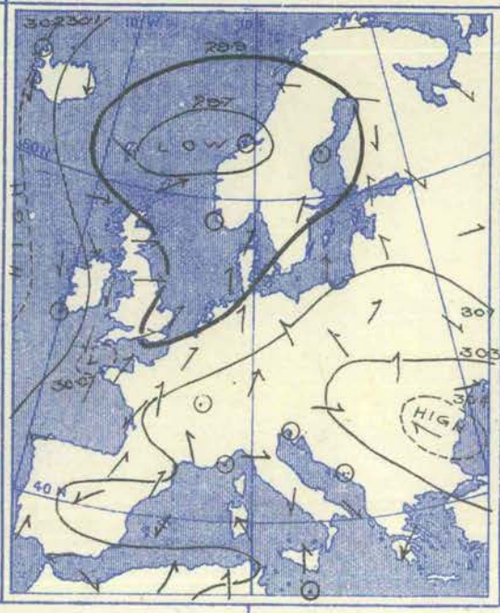
Temperature and Weather.

7 a.m.

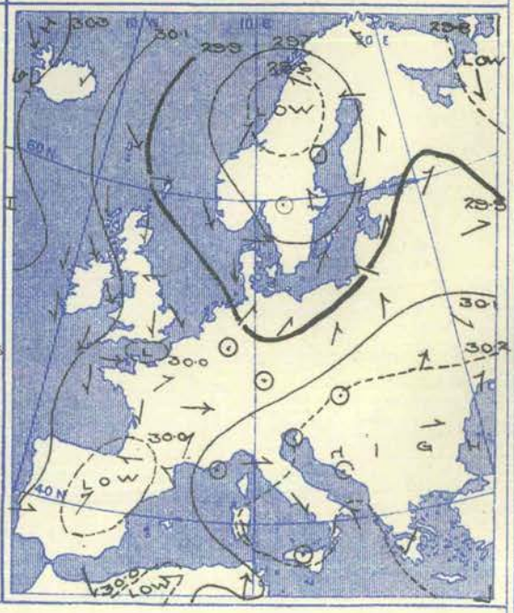


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in several parts of England and at a few isolated places in northern Europe, and showery in the Hebrides. A good deal of cloud prevailing over the north and north-west of our area generally. Fair to very fine in the more southern regions. Rain later over the greater portion of the United Kingdom; nearly half an inch in the south-east of England. Heavy falls, more than an inch, in the western and central departments of France and smaller amounts in Switzerland, the Netherlands and northern Europe. Thunderstorms in some French localities.

Temperature fallen in most regions. Morning readings ranging from 87° at Algiers, 81° at Barcelona, and above 70° over a large area in the south to below 50° at a few of our own stations, in Hungary, Poland, Russia and the north of Scandinavia. Maxima during day below 65° over most of these Islands; below 60° at Spurn Head and in the extreme north-west. Above 80° in many parts of France, and above 90° at Bordeaux and Toulouse. Thermometer rising to between 80° and 90° at many places in southern Europe, to 95° at Algiers, and to 100° at Cape de Garde. Subsequent minima lower than recently over the United Kingdom.

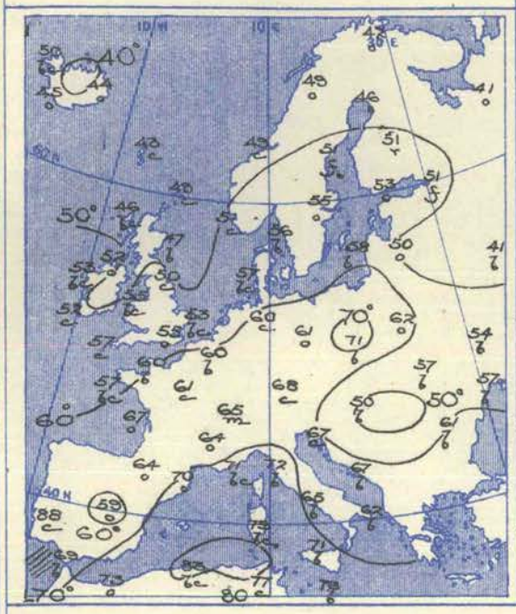
Wind in morning mainly between North and North-West over these Islands and fresh in places. South-Westerly to Southerly over France and the North Sea region, and light to moderate in force. Light and rather variable over the Mediterranean. Little change taking place during day.

Barometer in morning above 30·4 in. in an anticyclone centred over Transylvania; below 29·7 in. in a large depression having its minimum off the west coast of Norway, and relatively low in other disturbances over the North Sea and the western parts of the English Channel. High pressure system giving way considerably during day, and depressions moving Eastward or North-Eastward. The Channel disturbance lying between Normandy and the south of England by 6 p.m. A large, shallow depression forming over Spain. An anticyclone beginning to extend over these Islands from the west and north-west.

Thursday, 14th September, 1911.

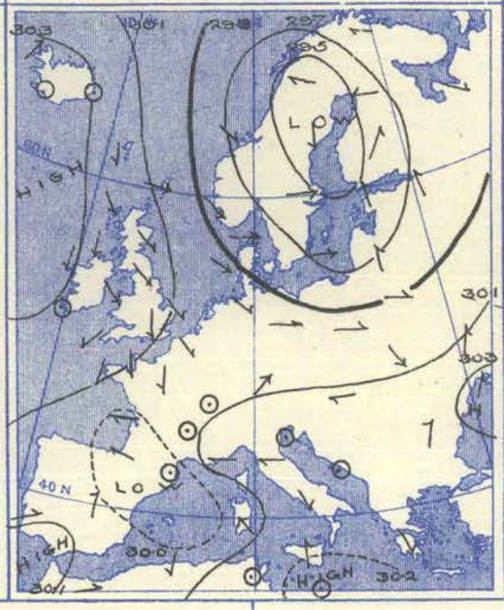
Temperature and Weather.

7 a.m.

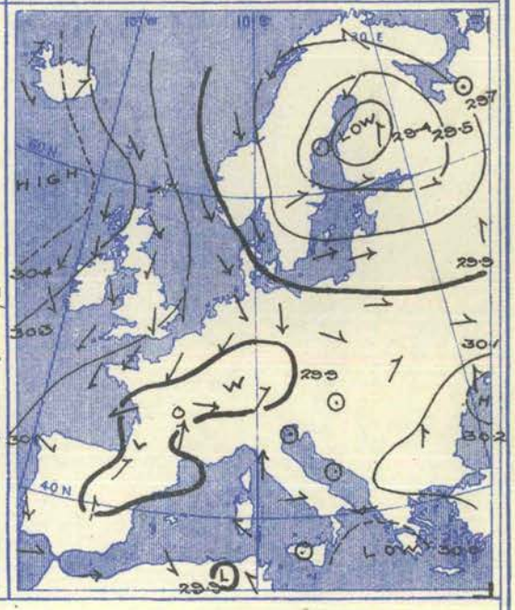


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in some parts of the Netherlands and central Europe, with a thunderstorm at Prague; showery at Castlebay, and rainy at Kuopio. Fair to fine in all other regions. A little rain later in the north and east of these Islands and at Liverpool, and considerable or heavy falls in several regions on the Continent. More than 1·0 in. at Carlsrnhe and about 1·6 in. at Toulouse and Lugano. Thunderstorms occurring locally in the south of France.

Temperature fallen generally. Morning readings below 50° at many places in the north and north-east of our area, as well as at some stations in Ireland, Scotland and Transylvania; above 60° in France and Germany, and above 70° over a considerable portion of southern Europe; as high as 83° at Algiers and 85° at Cape de Garde. Maxima during day below 60° at many stations in these Islands, but above 70° in most parts of France, South Germany, Austria-Hungary and Italy and above 80° in a few places. Thermometer touching 99° at Tunis.

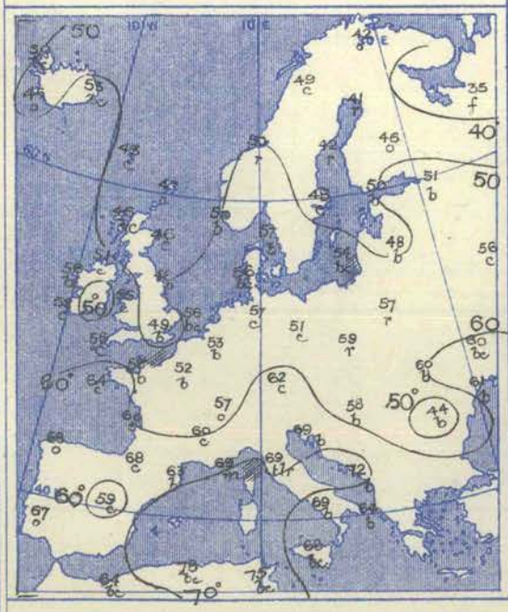
Wind in morning mainly cyclonic both over northern and southern Europe. Moderate in most regions, but Northerly current strong at Malin Head and that from West strong in the Skager Rack. Southerly wind increasing to a strong breeze at Leghorn during day.

Barometer in morning above 30·3 in. on the Atlantic to the west and north-west of these Islands, and above 30·2 in. in the south-east of Europe; below 29·5 in. in a large depression over Scandinavia and the Gulf of Bothnia, and below 30·0 in. in a very shallow system over the south of France and the adjacent parts of Spain and the Mediterranean. Northern depression increasing in depth by evening, and that in the south also becoming deeper and undergoing considerable modification in form. Anticyclone extending very slowly Eastward.

Friday, 15th September, 1911.

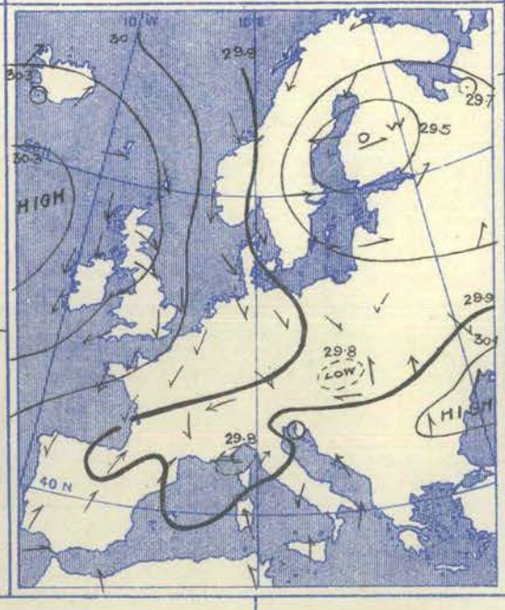
Temperature and Weather.

7 a.m.

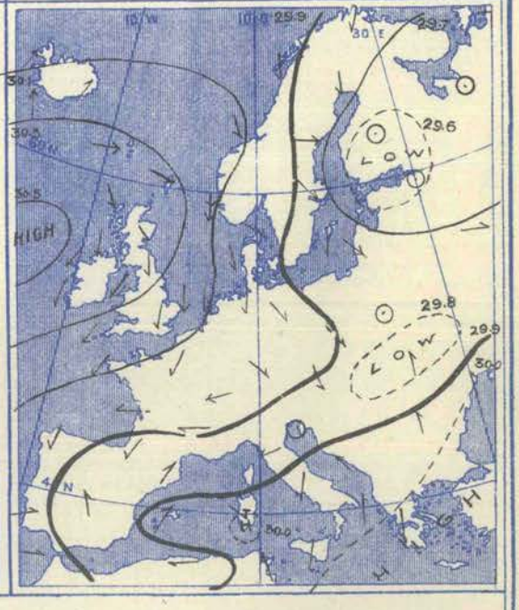


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy at La Hève, some places in central Europe, in the north of Scandinavia, and in the north of Italy, with thunder and lightning at Leghorn and Florence. Fair to very fine in nearly all other parts of our area, but showery at Pembroke. Some rain later in the east and south-east of England and the extreme north of Scotland and as much as 0·75 in. at Cape Grisnez. Heavy falls over a large area on the Continent; 1·0 in. at Breslau, 1·4 in. at Cracow, and 2·4 in. at Rome. Thunderstorms in some French localities.

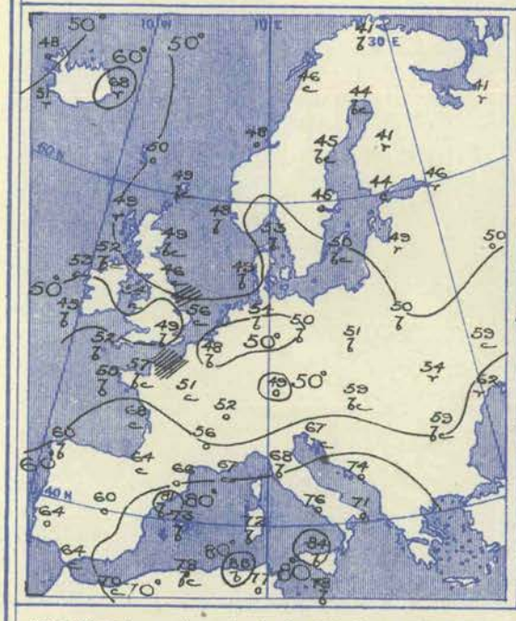
Temperature fallen over the greater part of our area. Readings in morning ranging from above 75° at a few stations in the extreme south to below 50° in almost the whole of the United Kingdom and the north of Europe, and to 35° at Archangel. Maxima during day a little above or below 60° over these Islands, above 70° in various parts of France, and above 80° at many places in the far south of Europe. Thermometer touching 95° at Palermo and 99° at Tunis and Cape de Garde.

Wind in morning mainly cyclonic except over these Islands and the adjacent portion of the Atlantic. Northerly to North-Easterly current fresh on some parts of our coasts, and strong at some Scandinavian stations. Generally light to moderate elsewhere, but a strong South-West breeze prevailing at Leghorn. Reaching the force of a high wind from the Northward at Spurn Head during day and blowing a gale from that quarter on the south-west coast of Norway.

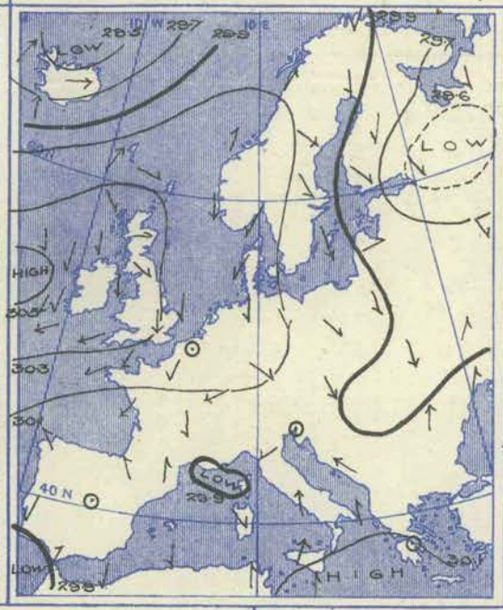
Barometer in morning above 30·2 in. over nearly all of the United Kingdom and higher on the Atlantic. Below 29·5 in. in a large depression over Finland, and relatively low in smaller disturbances further south. No alteration taking place in the general distribution of pressure, but another large depression beginning to affect the mercury in Iceland by evening.

Saturday, 16th September, 1911.

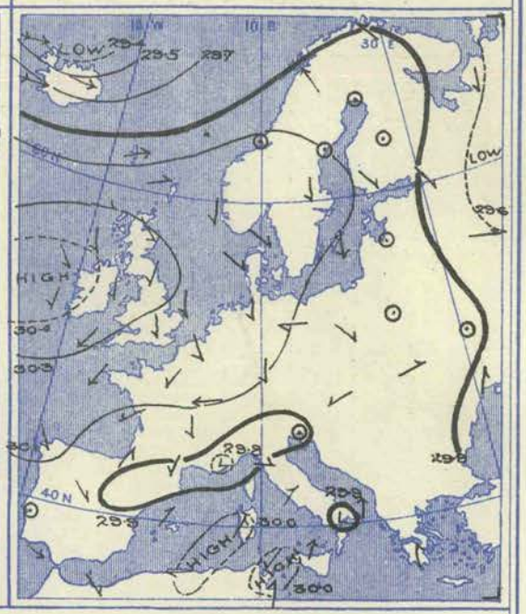
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the Hebrides, and also at La Hève, some stations in the far north-east of the Continent, at Lemberg and Odessa. Fair to very fine generally elsewhere, but overcast in a few localities. Considerable or heavy amounts of rain later in the south of France and in many places in central Europe, and smaller quantities in various parts of Russia, Scandinavia, the extreme north and north-west of these Islands and at Gt. Yarmouth.

Temperature fallen at most stations. Morning readings ranging from 41° at several places in the north of our area and 44° at Birr Castle and Bath to 50° or slightly above in the central countries, to above 70° over a wide area in the south, to 84° at Palermo, and to 86° at Cape de Garde. Maxima during day below 60° in many parts of this country and below 65° over these Islands generally, as well as in Germany and Austria. Rising to above 70° over a large area in the south of Europe, touching or exceeding 80° in some localities, and reaching 102° at Cape de Garde. Thermometer falling to 26° on the grass at night at Hampstead.

Wind in morning anticyclonic over the United Kingdom and much of the surrounding regions, generally cyclonic elsewhere. Westerly and South-Westerly breezes strong in Iceland, and Northerly wind high at Spurn Head. Fresh or strong at a few places scattered on the Continent, but mostly moderate or light. Gale continuing throughout the day in Iceland, but wind remaining light or moderate generally. A strong breeze from South springing up at Palermo and from North at Oran.

Barometer in morning below 29·5 in. in a depression to the northward of Iceland and nearly as low in another over Finland and northern Russia. Above 30·5 in. on the Atlantic, some distance to the westward of Ireland, and relatively high thence to beyond the North Sea. No important change occurring in the general distribution during day. Anticyclonic system decreasing slightly in intensity.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	Sept. 10th, 10.30 a.m. to noon.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	291·4° 55% 90°, 12	289° 65% 100°, 12	284·6° 75% 100°,					285·2° 42% 100°, } 825	Clear sky. Wind decreasing with altitude.
2	Sept. 14th, 11.17 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature.. Humidity .. Wind	5°, 5		10°, 8	360°, 7	325°, 4			}	Two theodolites. Balloon lost behind cloud.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2
No. of Kites	1	—
Area of Surface (sq. metres) ..	5	—
Capacity of Balloon (cub. metres) ..	—	·043
Length of Wire (metres)	1,300	—

South Kensington, London, S.W. *September 20th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1911.

SPECIAL SUPPLEMENT TO REPORT No. 37, FOR THE WEEK ENDED SEPTEMBER 16, 1911. [*Price 4d.*

Ascents of Registering Balloons made in connexion with the Ascents organized by the International Commission for Scientific Aeronautics. September 11th to 15th, 1911.

Height.	1. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 11th, 7.0 a.m.			2. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 11th, 7.0 p.m.			3. MANCHESTER. 36 m. 53° 27′ N., 2° 14′ W. Sept. 11th, 6.35 p.m.			4. CRINAN. 5 m. 56° 5′ N., 5° 31′ W. Sept. 11th, 6.40 p.m.		5. LIMERICK (MUNGRET). 15 m. 52° 38′ N., 8° 41′ W. Sept. 11th, 6.43 p.m.		6. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 12th, 7.3 a.m.			Wind.		Height.
km. M. S. L.*	mgd. 1·017	°A. —	°A.	mgd. 1·016	°A. —	°A.	mgd. 1·016	°A. —	°A.	mgd. 1·017	°A. —	mgd. 1·016	°A. —	mgd. 1·016	°A. —	°A.	Dir.° —	Vel. m.p.s —	km. M. S. L.*
Ground	·998	289		1·003	291		1·011	292		1·013	287	1·011	289	.996	290·5		—	—	Ground
0·5	·958	293		·963	290·5		·956	288·5		·954	284	·952	283	·959	291	294	120	4	0·5
1·0	·902	291		·908	289		·899	286·5		·897	281	·898	280	·904	291	294	140	6	1·0
1·5	·852	288		·856	287		·845	284		·844	279	·848	277	·853	289	291	180	11	1·5
2·0	·803	284		·807	281·5	284·5	·794	280·5	282·5	·795	277	·798	275	·804	285	287	190	9	2·0
2·5	·755	281		·758	279	282	·747	278	281	·748	274	·750	**272**	·758	281	282·5	200	20	2·5
3·0	·711	276·5		·715	276	278	·702	274·5	279	·704	**272**	·702	**269·5**	·714	275·5	276	205	15	3·0
3·5	·667	**271·5**		·672	**273**	275	·660	**270**	276·5	·661	**270·5**	·660	**268**	·670	**271·5**		210	15	3·5
4·0	·627	**267·5**		·630	**270**	**271**	·621	**266**	**272·5**	·621	**267**	·618	**265**	·628	**268**	**267**	205	15	4·0
4·5	·588	**264**		·591	**267·5**	**267**	·581	**263**	**268·5**	·582	**264·5**	·581	**262**	·590	**266**	**265**	—	—	4·5
5·0	·555	**262**	**264·5**	·551	**265**	**263**	·542	**259·5**	**264·5**	·547	**261·5**	·542	? **259**	·555	**263**	**264**	—	—	5·0
5·5	—	—		—	—	—	·507	**255·5**	**260·5**	—	—	—	—	—	—	—	—	—	5·5
6·0	·485	**257**		·487	**258**	**257**	·475	**253**	**257**	·479	**255**	—	—	·484	**256**		—	—	6·0
6·5	—	—		—	—	—	·444	**249·5**	**253**	—	—	—	—	—	—	—	—	—	6·5
7·0	·424	**250**		·425	**251**	**251·5**	·415	**245**	**250**	·418	**248**	—	—	424	**252**	**254**	—	—	7·0
7·5	—	—		—	—	—	·386	**242**	**247**	—	—	—	—	—	—	—	—	—	7·5
8·0	·371	**243·5**		·371	**243**	**245·5**	·359	**238·5**	**243·5**	·364	**239**	—	—	·369	**243**	**245**	—	—	8·0
8·5	—	—		—	—	—	·334	**234**	**240·5**	—	—	—	—	—	—	—	—	—	8·5
9·0	·321	**236**		·323	**237**	**238**	·311	**228**	**235**	·340	**231**	—	—	·323	**235**	**238**	—	—	9·0
9·5	—	—		—	—	—	·289	**222**	**230**	—	—	—	—	—	—	—	—	—	9·5
10	·278	**229**		·279	**230**	**231**	·270	**217**	**223·5**	·274	**222**	—	—	·278	**227**	**230**	—	—	10
11	·240	**222·5**		·243	**221**	**222**	·231	**213·5**	**215·5**	·235	**215**	—	—	·239	**221**	**224**	—	—	11
12	·205	**217**		·205	**217**		·196	**217**		·201	**220**	—	—	·205	**216**	**218**	—	—	12
13	·177	**217**		·177	**217**		·166	**217**		·171	**220**	—	—	·176	**218**		—	—	13
14	·152	**219**		·152	**219**		·143	**217**		·148	**216**	—	—	·151	**222**	**218**	—	—	14
15	·131	**221**		—	—		·124	**217**		—	—	—	—	·129	**222**	**219**	—	—	15
16	·112	**222**		—	—		·106	**218**		—	—	—	—	·111	**223**	**222**	—	—	16
17	·096	**222**		—	—		·090	**219**		—	—	—	—	·094	**223**		—	—	17
18	·080	**224**		—	—		—	—		—	—	—	—	·081	**225**		—	—	18
19	—	—		—	—		—	—		—	—	—	—	·071	**226**		—	—	19
20	—	—		—	—		—	—		—	—	—	—	—	—		—	—	20
21	—	—		—	—		—	—		—	—	—	—	—	—		—	—	21
22	—	—		—	—		—	—		—	—	—	—	—	—		—	—	22
At Min. Pressure.	·080	**224°**		·152	**219°**		087	**219°·5**		?	?	—	—	·071	**226°**		—	—	At Min. Pressure.
Max. Height (km.).	18			14			17·2			14·7		*See* note.		19					Max. Height (km.).
Min. Temp.	**217°** at 12–13 km.			**215°** at 12·3 km.			**213°·5** at 11 km.			**214°·5**, 11·1 km.		?		**215°**, 12·5 km.					Min. Temp.
Hc.; Tc. ..	11·9 km., **217°**			12·3 km., **215°**			11 km., **213°·5**. **215°·5**			11·1 km., **214·5**		—		12·5 km., **215°**					Hc.; Tc.
Fell, distant (km.).	71			144			120			152		620		80					Fell, distant (km.).
Direction ..	45°			57°			54°			50°		56°		42°					Direction.
Gradient °C. per 100 m.	0·56			0·57			0·64			0·56		0·60		0·54					Gradient °C. per 100 m.
Ground to..	7 km.			7 km.			7 km.			7 km.		5 km.		7 km.					Ground to.

NOTES.

* Values of the Pressure at M. S. L. and Standard Gravity are taken from the readings at 7 a.m. and 6 p.m. in the Daily Weather Reports for Oxford (Pyrton Hill and Ditcham), Liverpool (Manchester), Birr Castle and Valencia (Limerick), Castlebay (Crinan), in conjunction with the charts.

1. Ci.-cu. moving slowly from S.S.W. Small inversion at 4·6 km. on one trace, at 4·9 km. on the other.
2. Clear. Wind S.S.W. light.
4. Isothermal at **272°** for 3 to 3·3 km.
5. Max. height certainly did not exceed 6 km., but radiation spoilt the record above 5 km.
6. Cloudy to S. and S.W. Light S.S.W. wind. Nine oz. balloon. Observed rate of ascent 5·3 m.p.s. Entered clouds at 4 km.

(22147—24.) Wt. 113—4, 550. 12/11. D & S.

Height.	7. DITCHAM PARK, PETERSFIELD. 160 m. 51° 0′ N., 0° 57′ W. Sept. 12th, 7.3 a.m.			8. CRINAN. 5 m. 56° 5′ N., 5° 31′ W. Sept. 12th, 7.5 a.m.			9. LIMERICK, MUNGRET COLL. 15 m. 52° 38′ N., 8° 41′ W. Sept. 12th, 7.0 a.m.			10. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 12th, 7.0 p.m.			11. DITCHAM PARK, PETERSFIELD. 160 m. 51° 0′ N., 0° 57′ W. Sept. 12th, 6.30 p.m.			12. LIMERICK (MUNGRET). 15 m. 52° 38′ N., 8° 41′ W. Sept. 12th, 6.50 p.m.			Height.
km. M. S. L.*	mgd. 1·011	°A.	°A.	mgd. 1·017	°A.	°A.	mgd. 1·017	°A.	°A.	mgd. 1·011	°A.	°A.	mgd. 1·011	°A.	°A.	mgd. 1·017	°A.	°A.	km. M. S. L.*
Ground	·991	290		1·013	284		1·012	284		·994	295		·994	295		1·012	284·5		Ground.
0·5	·950	295		·955	281·5		·958	283	281	·952	294		·951	294		·954	283		0·5
1·0	·896	293		·897	277·5		·901	281·5	279·5	·897	290·5		·897	292		·898	278		1·0
1·5	·847	288		·844	274·5	276	·848	279	277	·848	286·5		·847	288		·845	277		1·5
2·0	·798	284		·795	274		·796	276	274	·798	283		·798	284	286	·796	275·5		2·0
2·5	·751	279		·747	274		·750	274	**273**	·751	279		·751	279	281	·750	273·5		2·5
3·0	·707	275	**273**	·702	**271**	**273**	·704	**272**	**271**	·705	275·5		·707	275	276	·704	**271**		3·0
3·5	·664	**271·5**		·661	**269**	**272**	·661	**269**	**268**	·662	**271**		·656	**272**		·661	**268**		3·5
4·0	·624	**270**	**268**	·620	**267**	**269**	·621	**266**	**265**	·621	**268·5**		·624	**269**		·620	**265**		4·0
4·5	·584	**266**		·582	**264·5**	**266·5**	·582	**263·5**	**261·5**	·584	**264**	**266**	·599	**266**		·582	**262**		4·5
5·0	·551	**262**		·545	**261**	**263**	·547	**260·5**	**259**	·550	**263**		·550	**263**		·544	**259**		5·0
5·5	—	—		—	—	—	—	—	—	—	—		—	—		—	—		5·5
6·0	·483	**255**		·478	**255·5**	**257·5**	·480	**253·5**	**252·5**	·483	**256·5**		·483	**256**		·478	**253**		6·0
6·5	—	—		—	—	—	—	—	—	—	—		—	—		—	—		6·5
7·0	·422	**247**		·418	**248·5**	**251**	·418	**248**	**247**	·421	**249**		·422	**249**		·417	**246**		7·0
7·5	—	—		—	—	—	—	—	—	—	—		—	—		—	—		7·5
8·0	·368	**241**		·365	**241**	**244**	·367	**241**	**239**	·368	**243**		·367	**241**		·364	**238**		8·0
8·5	—	—		—	—	—	—	—	—	—	—		—	—		—	—		8·5
9·0	·319	**234**		·318	**234**	**237**	·318	**233**	**230·5**	·320	**236**	**237·5**	·318	**233**		·316	**232**		9·0
9·5	—	—		—	—	—	—	—	—	—	—	—	—	—		—	—		9·5
10	·276	**225**		·275	**227**	**229**	·275	**224**	**221**	·278	**226·5**	**225·5**	·275	**223**		·274	**224**		10
11	·236	**217**		·236	**219·5**	**222**	·235	**219**		·239	**220**	**218**	·236	**216**		·235	**217**		11
12	·204	**214**		·204	**222**	**225**	·203	**223**	**221**	·204	**219·5**	**216·5**	·204	**216**		·201	**220**		12
13	·176	**218**		·176	**223**	**225**	·173	**224**	**222**	·176	**218·5**		·173	**216**		·172	**220**		13
14	·151	**222**	**219**	·151	**224**	**225·5**	·150	**226**		·151	**217**		·151	**214**		·150	**220·5**		14
15	·128	**223**	**219**	·129	**225**	**226**	—	—		·128	**219**	**216·5**	·127	**217**	**214**	·127	**221**		15
16	·111	**223**	**220**	·112			—	—		·110	**218**		·110	**216**	**214**	—	—		16
17	·094	**223**	**222**	·096	?		—	—		·094	**218**		·093	**215**		—	—		17
18	·081	**223**		·083			—	—		·081	**217·5**		·080	**215**		—	—		18
19	·070	? **225**		—	—		—	—		·070	**217**		—	—		—	—		19
20	—	—		—	—		—	—		—	—		—	—		—	—		20
21	—	—		—	—		—	—		—	—		—	—		—	—		21
22	—	—		—	—		—	—		—	—		—	—		—	—		22
At Min. Pressure.	·070	? **225°**		?	?		·150	**226°**		·070	**217°**		·080	**215°**		·127	**221°**		At Min. Pressure.
Max. Height (km.).	19			18			14			19·5			18			15			Max. Height (km.).
Min. Temp.	**213°**, 11·8 km.			**217°**, 11·2 km.			**217°** at 10·7 km.			**216°** at 12·2 km.			**214°** at 15–16 km.			**216°·5** at 11·2 km.			Min. Temp.
Hc.; Tc. ..	11·8 km., **213°**			11·2 km., **217°**; 11·5 km., **220°**.			10·7 km., **217°**; 11·0 km., **219°**.			11·1 km., **218°**; 12·2 km., **216°**.			10·9 km., **216°**			11·2 km., **216°·5.**			Hc.; Tc.
Fell, distant (km.).	99			Ca. 300			90			114			108			60			Fell, distant (km.).
Direction ..	32°			Ca. 50°			30°			33°			30°			45°			Direction.
Gradient °C. per 100 m.	0·61			0·50			0·51			0·66			0·66			0·55			Gradient °C. per 100 m.
Ground to ..	7 km.			7 km.			7 km.			7 km.			7 km.			7 km.			Ground to.

* *See* note on p. 304A.
7. Inversion **267°** to **268°** at 4·1 km. on one trace and **268°** to **269°** at 3·9 km. on the other.
8. Inversion **272°** to 274° at 1·8 km. on one trace. Isothermal at 274° from 1·8 km. to 2·6 km. on the other. Upper part of trace useless from solar radiation.
9. Wind N. by E. (Force 3). Drizzle. Isothermal on both traces from 6·1 to 6·3 km.
10. Light E. wind at surface. Strong S. wind at 1 km. Ci.-Cu.
12. Fine. Wind North (Force 3). Inversion 274° to 277° at 1·5 km. on one trace. Isothermal at 277° from 1·2 to 1·7 km. on the other.

Height.	13. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 13th, 6.50 p.m.		14. MANCHESTER. 36 m. 53° 27′ N., 2° 14′ W. Sept. 13th, 7.15 a.m.			15. CRINAN. 5 m. 56° 5′ N., 5° 31′ W. Sept. 13th, 7.5 a.m.			16. LIMERICK (MUNGRET). 15 m. 52° 38′ N., 8° 41′ W. Sept. 13th, 7.0 a.m.		17. CRINAN. 5 m. 56° 5′ N., 5° 31′ W. Sept. 13th, 6.40 p.m.		18. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 14th, 7.3 a.m.			19. DITCHAM PARK, PETERSFIELD. 160 m. 51° 0′ N., 0° 57′ W. Sept. 14th, 7.14 a.m.			Height.
km. M. S. L.*	mgd. 1·019	°A. —	mgd. 1·016	°A. —	°A.	mgd. 1·017	°A. —	°A.	mgd. 1·020	°A. —	mgd. 1·019	°A. —	mgd. 1·020	°A. —	°A.	mgd. 1·020	°A. —	°A.	km. M. S. L.*
Ground	·999	285	1·011	286		1·016	283		1·013	283	1·018	283	1·000	—		·998	283		Ground.
0·5	·959	285	·956	287·5	291·5	·956	281		·956	281	·959	281	·958	282		·956	281		0·5
1·0	·901	285	·903	288	290	·901	277		898	277	·901	277	·915	279		·901	278		1·0
1·5	·849	281	·851	285·5	290·5	·848	**273**		·845	**273**	·851	**273**	·848	275		·843	274		1·5
2·0	·798	278	·800	284	288	·796	277	275	·796	277	·798	**269**	·796	274	**272**	·795	**273**		2·0
2·5	·751	275·5	·752	282·5	286	·750	**273**	**272**	·750	273·5	·750	**271**	·750	**268**		·745	**273**		2·5
3·0	·707	**273**	·709	279	283	·704	**270**		·702	**270·5**	·702	**268**	·702	**271**		·701	**273**	**269**	3·0
3·5	·664	**271**	·669	275·5	280	·662	**268**		·660	**267·5**	·658	**264·5**	·658	**269**		·657	**269·5**	**266·5**	3·5
4·0	·622	**268·5**	·629	**272**	276	·621	**265**		·618	**265**	·618	**260·5**	·620	**266**		·617	**266·5**	**263·5**	4·0
4·5	·584	**266**	·591	**268**	**273**	·582	**262**		·581	**262·5**	·578	**259**	·581	**263**		·578	**262**	**259**	4·5
5·0	·550	**262·5**	·555	**264·5**	**269·5**	·547	**259**		·544	**259**	·541	**256**	·544	**258·5**		·542	**259**	**255**	5·0
5·5	—	—	·523	**261**	**266**	—	—		—	—	—	—	—	—		—	—		5·5
6·0	·481	**256**	·491	**257**	**262**	·478	**251·5**		·478	**255·5**	·474	**248**	·476	**252·5**		·474	**250**		6·0
6·5	—	—	·459	**253**	**258**	—	—		—	—	—	—	—	—		—	—		6·5
7·0	·421	**249·5**	·428	**249**	**254**	·417	**244·5**		·417	**243·5**	·411	**240**	·416	**246**		·412	**242**		7·0
7·5	—	—	·397	**244**	**250**	—	—		—	—	—	—	—	—		—	—		7·5
8·0	·367	**241**	·371	**238**	**245**	·364	**236·5**		·361	**236**	·356	**232**	·361	**239**		·358	**235**		8·0
8·5	—	—	·346	**233·5**	**241**	—	—		—	—	—	—	—	—		—	—		8·5
9·0	·318	**235**	·321	**230**	**235·5**	·315	**229**		·315	**231**	·308	**225**	·314	**233**		·310	**229**	**227**	9·0
9·5	—	—	·297	**227·5**	**232**	—	—		—	—	—	—	—	—		—	—		9·5
10	·275	**227**	·276	**222·5**	**229**	·272	**225**		·272	**224**	·264	**225**	·271	**225**		·265	**220**		10
11	·236	**222**	·241	**225**	**228·5**	·235	**225**		·245	**223**	·227	**226**	·232	**223**		—	?		11
12	·204	**221·5**	·210	**226·5**	**230**	·203	**226**		·201	**224**	·196	**225**	·199	**222**		—	?		12
13	·176	**222·5**	·183	**227**	**230**	·173	**226**		·171	**222·5**	·168	**225**	·171	**222**		·169	**221**		13
14	·151	**222**	·157	**229**	**230·5**	·150	**227**		·150	**223**	·142	**224**	·148	**223**		·144	**223**		14
15	·128	**221**	·133	**229**	**231**	·128	**228**		·127	**223**	·124	**225**	·127	**223**		·124	**224**		15
16	—	—	·115	**228**	**231**	—	—		·110	**223**	·107	**224**	·110	**224**	**223**	·107	**224·5**		16
17	—	—	·098	**227·5**	**232**	—	—		·094	**223·5**	·092	**224**	·093	**225**	**223**	·092	**225**		17
18	—	—	·084	**227**	**231·5**	—	—		·081	**224**	—	—	·080	**225**	**226**	·079	**225·5**		18
19	—	—	·072	**226·5**	**231·5**	—	—		—	—	—	—	·070	**227**		·068	**226**		19
20	—	—	·063	**226·5**	**231·5**	—	—		—	—	—	—	—	—		—	—		20
21	—	—	·053	**227**	**231·5**	—	—		—	—	—	—	—	—		—	—		21
22	—	—	·045	**230**	**232·5**	—	—		—	—	—	—	—	—		—	—		22
At Min. Pressure.	·128	**221**	·041	**234°·5**		·128	**228°**		·081	**224°**	·092	**224°**	·070	**227°**		·068	**226**		At Min. Pressure.
Max. Height (km.).	15		22·8			15			18		17		19			19			Max. Height (km.).
Min. Temp...	**220°** at 11·4 km.		**225°** at 11 km.			**224°** at 10·6 km.			**222°** at 10·4 km.		**224°** at 9·4, 14, 16 and 17 km.		**222°** at 12-13 km.			?			Min. Temp.
Hc.; Tc. ..	11·4 km., **220°**.		10 km., **225°·5**			10·6 km., **224°**			10·4 km., **222°**		9·4 km., **224°**		10·3 km., **223°**			? 11 km., ? **218°**			Hc.; Tc.
Fell, distant (km.).	117		85			175			48		70		117			123			Fell, distant (km.).
Direction ..	67°		58°			60°			70°		90°		69°			81°			Direction.
Gradient °C. per 100 m.	0·51		0·49			0·55			0·56		0·61		0·51			0·59			Gradient °C. per 100 m.
Ground to ..	7 km.		7 km.			7 km.			7 km.		7 km.		7 km.			7 km.			Ground to.

* *See* note on p. 304A.

13. Foggy. Raining. Moderate N. wind.
14. Balloon fell about 9.30 a.m.
15. Inversion **273°** to 277° on one trace at 1·7 km.; **273°** to 275° on the other at 1·6 km. No definite commencement of the isothermal.
16. Wind N. Fine. Inversion of 5° at 1·5 km.
17. Inversion **269°** to **272°** at 2·1 km.
18. Light N. wind up to cloud level at 1·5 km. Overcast. Isothermal 1·7 to 2·3 km. on one trace. Inversion **272°** to 274° at 2·1 km. on the other. Nearly isothermal at **269·5°** from 3·2 to 3·6 km.
19. Isothermal at **273°** from 1·6 to 2·3 km. on one trace, and 1·6 to 3·1 km. on the other. Also from 5·3 to 5·7 km. at **253°** and 6·4 to 6·6 km. at **246°**

Height.	20. MANCHESTER. 36 m. Sept. 14th, 6.50 a.m.		21. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 14th, 6.47 p.m.			22. PYRTON HILL. 153 m. 51° 38′ N., 1° 1′ W. Sept. 15th, 7.0 a.m.			Wind.		23. MANCHESTER. 36 m. 53° 27′ N., 2° 14′ W. Sept. 15th, 6.55 a.m.			24. CRINAN. 5 m. 56° 5′ N., 5° 31′ W. Sept. 15th, 7.0 a.m.			25. LIMERICK, MUNGRET COLL. 15 m. 52° 38′ N., 8° 41′ W. Sept. 15th, 7.20 p.m.			Height.
km. M. S. L.*	mgd. 1·021	°A —	mgd. 1·022	°A. —	°A.	mgd. 1·024	°A. —	°A.	Dir. ° —	Vel. m.p.s. —	mgd. 1·026	°A. —	°A.	mgd. 1·029	°A. —	°A.	mgd. 1·028	°A. —	°A.	km. M. S. L.*
Ground	1·020	284·5	1·004	285		1·003	279		—	—	1·021	283·5		1·028	283		1·025	282		Ground.
0·5	·959	281·5	·961	281		·960	281		30	10	·963	274·5	279	·968	279·5		·968	278·5		0·5
1·0	·900	276	·907	276	279	·904	280		30	6	·907	**272·5**	276·5	·910	275		·910	274		1·0
1·5	·846	277·5	·853	**272·5**	274·5	·851	275	277	35	5	·851	**272**	273·5	·856	276		·853	**270**		1·5
2·0	·794	276	·803	**268·5**	**269·5**	·798	**273**		30	7	·798	**271·5**	**272**	·804	273·5		·803	**272**		2·0
2·5	·746	**273**	·752	**268**	**270**	·750	**270**		15	6	·747	**269·5**	**272**	·755	**271**		·752	**270**		2·5
3·0	·702	**271·5**	·707	**268·5**	**271**	·704	**268**		0	3	·699	**263**	**266**	·710	**268**		·705	**268**		3·0
3·5	·658	**268**	·662	**266·5**	**268**	·661	**266**		340	3	·654	**258**	**261**	·664	**264·5**		·662	**264·5**		3·5
4·0	·617	**264·5**	·622	**261·5**	**263·5**	·621	**263·5**		330	4	·610	**255**	**257·5**	·624	**260·5**		·621	**261**		4·0
4·5	·577	**260·5**	·582	**257**	**259**	·581	**261**		—	—	·569	**252·5**	**255**	·584	**257·5**		·581	**257**		4·5
5·0	·538	**256·5**	·545	**254·5**	**256·5**	·544	**257·5**		350	3	·531	**247·5**	**251**	·547	**253**		·542	**253**		5·0
5·5	·502	**252**	—	—	—	—	—		—	—	·495	**244**	**248**	—	—		—	—		5·5
6·0	·468	**248·5**	·476	**248·5**	**251**	·476	**252**		290	5	·460	**240**	**244**	·478	**245·5**		·474	**246**		6·0
6·5	·436	**245**	—	—	—	—	—		—	—	·428	**237**	**240**	—	—		—	—		6·5
7·0	·407	**242**	·416	**240·5**	**244·5**	·416	**243**		275	11	·399	**233·5**	**236**	·416	**238**		·411	**239**	**238**	7·0
7·5	·379	**240**	—	—	—	—	—		—	—	·371	**230**	**232·5**	—	—		—	—	—	7·5
8·0	·353	**235·5**	·361	**233**	**236**	·360	**234**		255	20	·344	**226**	**229**	·358	**230·5**		·355	**233**	**231**	8·0
8·5	·331	**233·5**	—	—	—	—	—		—	—	·317	**222·5**	**225**	—	—		—	—		8·5
9·0	·308	**231·5**	·311	**226·5**	**229**	·311	**227**		—	—	·293	**220·5**	**222**	·310	**225·5**		·304	**224·5**		9·0
9·5	·286	**229**	—	—	—	—	—		—	—	·272	**220**	**221**	—	—		—	—		9·5
10	·266	**231**	·270	**221·5**	**223**	·270	**223**		—	—	·252	**220·5**		·267	**226**		·262	**221**		10
11	·228	**231**	·231	**219·5**	**220·5**	·231	**221**		—	—	·217	**222·5**		·230	**225**	**228**	·224	**221**		11
12	·196	**230·5**	·198	**217**		·198	**221**		—	—	·187	**223·5**		·198	**226**		·192	**221**		12
13	·169	**230·5**	·169	**217**		·169	**221**		—	—	·159	**222·5**		·169	**224·5**		·164	**221**		13
14	·146	**230**	·145	**218·5**		·145	**221**		—	—	·135	**222**		·145	**224**		·142	**220**		14
15	·125	**231·5**	·125	**219**		·125	**221**		—	—	·116	**222**		·125	**225**		·121	**219·5**		15
16	·108	**234**	—	—		·108	**222**		—	—	·100	**222·5**		—	—		·118	**219**		16
17	—	—	—	—		·093	**223**		—	—	·086	**222**	**225**	—	—		—	—		17
18	—	—	—	—		·080	**223**		—	—	·075	**224**		—	—		—	—		18
19	—	—	—	—		·068	**224**		—	—	—	—		—	—		—	—		19
20	—	—	—	—		·058	**225**		—	—	—	—		—	—		—	—		20
At Min. Pressure.	·108	**234**	?	?		·058	**225°**		—	—	·075	**224°**		·125	**225°**		·118	**221**		At Min. Pressure.
Max. Height (km.).	16·0		15·7			20					18·0			15			16			Max. Height (km.).
Min. Temp. ..	**229°** at 9·5 km.		**216°** at 12·4 km.			**221°** from 10·4 to 15 km.					**220°** at 9·5 km.			**224°** at 13 to 14 km.			**219°** at 15·5 km.			Min. Temp.
Hc.; Tc. ..	9·5 km., **229°**		12·4 km., **216°**			10·4 km., **221°**					9·0 km., **220°·5**: 9·5 km., **221°**.			9·1 km., **225°**			9·9 km., **221°**			Hc.; Tc.
Fell, distant (km.).	97		96			56					86			108			38			Fell, distant (km.).
Direction ..	90°		85°			98°					119°			198°			180°			Direction.
Gradient °C. per 100 m.	0·61		0·61			0·51					0·70			0·64			0·61			Gradient °C. per 100 m.
Ground to ..	7 km.		7 km.			7 km.					7 km.			7 km.			7 km.			Ground to.

* *See* note on p. 304A.

20. Temperature inversion 1·2 to 1·4 km.

21. Inversion of about 1° on both traces between 2 and 3 km Wind N.E. by E. with a few cumulus. Moderate N.E. surface wind; lighter and more from the E. at 1 km.

22. Inversion of 1° at 1·7 km. Clear. Wind at 8·5 km. 250°, 25 m.p.s. 23. Balloon seen falling at 9.30 a.m. 24. Inversion **272°** to 276° at 1·4 km. Light N. wind.

25. Inversion **267°** to **272°** at 1·8 km. on one trace, **269°** to **272°** at 2·0 km. on the other. North wind (Force 3). St. Cu.

The height of the commencement of the isothermal layer was very badly defined during the whole series of ascents at Pyrton Hill. The temperature gradient slackened gradually instead of in the usual sudden manner. The whole set of traces were usually clear and well-defined.

The results of observations in the Upper Air are stated in C.G.S. or absolute metric units. The units adopted for each element are as follows :—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (mgd.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°; Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Meteorological Office,
December, 1911.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 38. THIRTY-EIGHTH WEEK, SUNDAY, SEPTEMBER 17TH, TO SATURDAY, SEPTEMBER 23RD, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather continued fine and dry in nearly all districts until about the middle of the week, when a decided change occurred. Rain fell very generally on Tuesday and Wednesday and again on Saturday, but in the interval the conditions over England were mostly fair. Thunderstorms occurred in many parts of the country on Wednesday and Thursday.

Temperature was below the average in all districts, a condition which had not prevailed since the closing week of June. Over North Britain the deficit was slight, but in the Midland Counties and England S.W. it amounted to more than 2°·5, and in England S.E. to 3°·5. The highest readings occurred mostly either on the 19th or 20th, but as a rule the thermometer failed to reach 70°, and in Scotland W. and England N.W. it did not touch 65°. The lowest readings were observed in the latter half of the week when the thermometer in the screen sank below the freezing point in many parts of Great Britain, and touched 24° in Scotland E. (at West Linton). On the surface of the grass the lowest temperatures reported were 18° at Llangammarch Wells and 22° at Balmoral, Hereford and Marlborough.

Mean Temperature of the Sea was again higher than during the corresponding week of last year, the difference being rather large around the east and south-east coasts of England. The means for the week ranged from about 63° at Eastbourne and the Shipwash Lightship, and 61° at Newquay, to between 51° and 53° off the north of Scotland.

Rainfall was in excess of the average in all districts excepting Scotland E. and W.—largely so in England S.W. and the English Channel. The heaviest daily amounts occurred on the 19th and 20th; on the former date 1·1 in. was recorded at Glencarron and 1·2 in. at Aspatria.

Bright Sunshine exceeded the normal in the eastern and central parts of Great Britain, as well as in the north of Ireland, but was deficient in the western districts generally. The percentage of the possible amount ranged from 59 in England S.E., and 56 in England E. to 22 in England N.W. and to 19 in Scotland N.

Barometer and Wind. At the commencement of the week, when a large anticyclone extended over western Europe from the Atlantic, the wind was South-Westerly in Scotland, but chiefly from some Northerly quarter in England and Ireland. After Tuesday the anticyclone receded in a Southerly direction, while a large depression which spread down from the Icelandic region moved slowly eastward across the United Kingdom. Westerly and South-Westerly winds, shifting in many districts to the North Westward, consequently set in very generally, and blew with the force of a gale on our extreme northern coasts. Towards the close of the week a new disturbance extended over the country from the upper portions of the Atlantic, the wind backing to the Southward or South-Westward and again increasing to a gale on exposed parts of our extreme northern and north-western coasts.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 300.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Moderate
	Rainfall ...	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Scanty	Moderate	Abundant	Abundant	Moderate	Abundant	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 3 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 0	1 * 0	1 * 0	2 * 0	1 * 1	2 * 1	1 * 0	1 * 1	2 * 1	1 * 0	1 * 1	2 * 0
	Rainfall ...	1 * 1	0 * 1	1 * 1	0 * 1	0 * 1	0 * 1	0 * 2	1 * 1	1 * 1	0 * 2	0 * 1	2 * 1
	Sunshine ...	1 * 1	1 * 0	2 * 0	3 * 0	2 * 0	3 * 0	1 * 1	1 * 1	2 * 1	1 * 0	1 * 1	1 * 1

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-EIGHTH WEEK—September 17th to September 23rd, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	65	32	56·6	45·0	50·5	− 0·7	60	− 5	0	− 1	6	+ 1	1·28	+0·22	17	− 6	19	− 7
Eastern																		
1. SCOTLAND, EAST	70	24	60·7	42·8	51·3	− 0·4	65	− 4	0	− 1	3	0	0·29	−0·25	28	+ 2	33	+ 2
2. ENGLAND, N.E.	69	32	63·0	44·5	53·3	− 0·6	79	− 4	0	0	3	0	0·45	+0·10	40	+ 9	46	+11
3. ENGLAND, EAST	73	33	64·8	44·6	54·2	− 1·4	85	− 11	0	0	3	0	0·48	+0·06	48	+ 13	56	+15
4. MIDLAND COUNTIES	68	32	62·2	41·9	51·6	− 2·8	68	− 19	0	− 1	3	0	0·58	+0·14	34	+ 4	39	+ 4
5. ENGLAND, S.E.	69	29	64·0	44·5	53·8	− 3·0	83	− 20	0	0	3	0	0·53	+0·06	50	+ 15	59	+18
Western																		
6. SCOTLAND, WEST	64	30	59·3	45·5	52·1	− 0·7	71	− 5	0	0	5	+ 2	0·89	−0·04	21	− 7	25	− 9
7. ENGLAND, N.W.	64	33	59·9	46·5	52·8	− 1·8	76	− 12	0	0	3	− 1	0·83	+0·17	19	− 10	22	−12
8. ENGLAND, S.W.	68	31	61·3	45·9	53·3	− 2·6	79	− 18	0	0	5	+ 1	1·13	+0·44	25	− 8	29	− 9
9 IRELAND, NORTH	66	36	59·6	46·1	52·6	− 1·0	74	− 8	0	0	5	+ 1	0·81	+0·12	28	+ 2	32	+ 2
10. IRELAND, SOUTH	66	38	60·2	46·4	53·0	− 1·9	77	− 13	0	0	5	+ 2	0·76	+0·12	26	− 5	30	− 6
11. ENGLISH CHANNEL	70	45	64·0	51·5	57·5	− 1·3	109	− 9	0	0	5	+ 1	1·07	+0·49	35	− 7	41	− 8

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 3 Weeks, September 3rd to September 23rd, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
0. SCOTLAND, NORTH	68	32	*	*	*	*	224	+ 6	0	− 1	13	− 1	2·13	−0·83	70	− 4	26	− 1
Eastern																		
1. SCOTLAND, EAST	77	24	*	*	*	*	236	+ 1	0	− 2	7	− 3	0·61	−0·89	96	+ 9	35	+ 3
2. ENGLAND, N.E.	89	32	*	*	*	*	296	+ 23	0	0	7	− 2	1·19	−0·22	133	+ 36	49	+13
3. ENGLAND, EAST	93	33	*	*	*	*	371	+ 61	0	0	7	− 1	0·86	−0·43	149	+ 40	56	+15
4. MIDLAND COUNTIES.. ..	94	32	*	*	*	*	321	+ 36	0	− 1	6	− 2	1·10	−0·25	132	+ 36	49	+13
5. ENGLAND, S.E.	91	29	*	*	*	*	384	+ 51	0	0	5	− 3	0·90	−0·58	163	+ 51	61	+19
Western																		
6. SCOTLAND, WEST	70	30	*	*	*	*	246	− 5	0	0	8	− 2	1·06	−1·59	96	+ 3	36	+ 1
7. ENGLAND, N.W.	85	33	*	*	*	*	293	+ 9	0	0	8	− 2	2·18	+0·25	117	+ 23	44	+ 9
8. ENGLAND, S.W.	91	28	*	*	*	*	356	+ 47	0	0	8	− 2	1·76	−0·21	133	+ 28	50	+10
9. IRELAND, NORTH	73	36	*	*	*	*	272	+ 8	0	0	9	− 3	1·09	−0·99	111	+ 29	41	+11
10. IRELAND, SOUTH	82	37	*	*	*	*	299	+ 11	0	0	8	− 2	1·44	−0·51	123	+ 27	46	+10
11. ENGLISH CHANNEL	89	45	*	*	*	*	454	+ 86	0	0	7	− 3	1·76	+0·14	151	+ 18	57	+ 7

THE YEAR.—Aggregates, &c., for the Period of 38 Weeks, January 1st to September 23rd, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
0. SCOTLAND, NORTH	84	14	*	*	*	*	1980	+208	415	−143	157	−17	33·88	−0·49	1086	+128	30	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2195	+190	492	−130	132	−11	15·92	−5·15	1268	+129	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2660	+437	371	−104	110	−19	14·08	−2·79	1371	+139	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3057	+487	409	−112	110	−14	12·51	−3·69	1561	+225	45	+ 6
4. MIDLAND COUNTIES.. ..	98	14	*	*	*	*	2944	+423	415	−119	94	−29	11·41	−6·70	1365	+170	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3111	+359	361	− 20	93	−25	12·25	−5·34	1669	+314	48	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2458	+304	347	− 78	134	−16	25·67	−5·83	1334	+160	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2719	+368	314	− 72	114	−24	19·31	−3·83	1448	+257	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	2962	+361	297	− 4	106	−29	18·79	−5·83	1571	+248	45	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2463	+212	302	− 43	129	−35	18·88	−7·06	1304	+231	37	+ 7
10. IRELAND, SOUTH	88	18	*	*	*	*	2874	+300	295	+ 36	135	−10	20·85	−6·28	1388	+184	40	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3313	+359	135	+ 26	110	−33	16·09	−4·21	1760	+150	51	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°		Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	*p Baltasound* S	55	17th, 23rd	42	22nd	53·4	46·9	50·0	—	56	0	7	1·21	—	13·3	—	15	—	*Baltasound.*
	a Lerwick	55	17th, 23rd	42	22nd	54·1	46·7	50·2	+ 0·2	57	0	7	1·34	—	14·7	−10·3	17	−12	Deerness.
	a Stornoway	61	23rd	36	21st	56·9	44·3	50·3	− 0·8	58	0	6	1·11	+ 0·07	19·2	− 6·6	22	− 8	Stornoway.
	a Castlebay, Barra Isd.	58	18th, 23rd	44	21st	56·4	49·1	52·6	+ 1·1	74	0	6	0·99	—	20·6	—	24	—	*Castlebay.*
b, Mainland.	a Wick	60	17th, 18th	37	22nd	55·9	44·0	49·7	− 1·6	54	0	6	0·59	− 0·02	*	*	*	*	* *
	p Strathpeffer.. ..	65	18th	36	21st	60·3	44·9	52·2	+ 0·8	71	0	7	0·40	− 0·17	17·8	− 8·8	21	−10	Strathpeffer.
	p Glencarron .. 𝔖	61	23rd	35	21st	55·7	45·4	50·3	+ 0·1	58	0	6	2·82	+ 0·83	*	*	*	*	* *
	p Fort Augustus 𝔖	61	23rd	32	21st	57·5	44·5	50·7	− 1·3	61	0	5	0·61	− 0·31	15·2	− 3·8	18	− 4	Fort Augustus.
	p Fort William 𝔖	59	23rd	34	22nd	56·1	45·1	50·3	− 2·3	58	0	6	2·08	+ 0·39	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	67	18th	36	21st	60·9	45·7	52·9	+ 0·3	76	0	4	0·31	− 0·29	18·2	—	21	—	*Gordon Castle.*
	a Nairn	65	18th	32	21st	60·0	42·3	50·7	− 1·2	61	0	2	0·16	− 0·34	19·7	—	23	—	Nairn.
	a Aberdeen	70	18th	37	21st	61·7	43·6	52·2	− 0·2	71	0	4	0·44	− 0·14	27·3	− 0·7	32	− 1	Aberdeen.
	a Balmoral .. 𝔖	65	18th, 19th	25	21st	61·3	38·9	49·6	+ 0·8	66	9	2	0·03	− 0·63	24·7	—	29	—	Crathes S.
	p Crieff .. .. 𝔖	67	18th	34	22nd	61·0	43·5	51·8	− 1·1	69	0	5	0·62	− 0·12	32·7	—	38	—	Balruddery.
	a Leith	65	18th, 19th	35	22nd	61·9	45·3	53·2	− 0·8	78	0	2	0·18	− 0·22	*	*	*	*	* *
	p West Linton.. S	62	17th, 18th	24	22nd	58·5	40·8	49·2	− 1·6	55	3	4	0·24	—	22·0	—	26	—	*West Linton.*
	p Marchmont .. 𝔖	67	18th	35	22nd	60·4	42·1	50·8	− 0·8	62	0	3	0·34	− 0·29	35·6	+ 9·1	41	+11	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	68	18th	33	22nd	62·3	44·3	52·9	+ 0·6	76	0	3	0·33	− 0·25	43·4	—	51	—	Cockle Park.
	a Shields	66	18th	38	22nd, 23rd	62·1	43·9	52·6	− 1·0	74	0	3	0·32	− 0·12	31·5	+ 9·0	37	+11	*Newcastle.*
	p Durham	68	18th	33	22nd	62·5	43·3	52·4	− 0·8	73	0	4	0·14	− 0·33	33·9	+ 7·2	39	+ 8	Durham.
	p Rounton .. 𝔐	67	18th	32	22nd	62·0	43·7	52·4	− 0·3	73	0	3	0·27	− 0·18	*	*	*	*	* *
	p Scarborough.. M	69	18th	44	22nd, 23rd	62·9	45·1	53·6	− 1·1	81	0	3	0·87	+ 0·40	46·9	—	55	—	Scarborough.
	p York	66	18th, 23rd	37	22nd	63·6	45·0	53·9	− 0·6	83	0	3	0·53	+ 0·11	30·2	+ 3·0	35	+ 4	York.
b, South.	a Spurn Head	65	18th, 20th	46	17th	62·4	49·6	55·7	− 0·2	96	0	1	0·56	+ 0·21	*	*	*	*	* *
	a Lincoln	68	18th	34	22nd	64·4	42·0	52·7	− 2·2	75	0	3	0·43	+ 0·02	42·6	—	50	—	Skegness.
	a Fulbeck	67	18th	35	22nd	64·7	43·2	53·4	− 1·8	80	0	4	0·58	+ 0·15	39·8	—	46	—	Rauceby.
															—	—	—	—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	69	20th, 23rd	45	18th, 23rd	64·9	47·3	55·7	+ 0·3	96	0	3	0·42	—	51·0	—	59	—	Cromer.
	p Hillington .. 𝔐	67	23rd	34	22nd	63·7	42·4	52·5	− 2·7	74	0	6	0·81	+ 0·24	32·1	+ 0·7	37	+ 1	Hillington.
	a Yarmouth	69	20th	43	18th	64·3	46·7	55·1	− 1·0	92	0	2	0·18	− 0·30	47·0	—	55	—	Yarmouth.
	a Norwich	68	18th, 20th	37	23rd	64·4	45·0	54·2	− 1·9	85	0	4	0·53	—	*	*	*	*	* *
	p Geldeston	70	18th, 20th	36	23rd	66·3	44·1	54·7	− 1·2	89	0	3	0·41	− 0·09	46·6	+11·3	54	+13	Geldeston.
	p Cambridge	69	19th	33	22nd	65·3	41·4	52·8	− 3·1	78	2	4	0·59	+ 0·16	46·8	+12·9	54	+15	Cambridge.
b, South.	*a Felixstowe*	67	18, 20, 21st	42	22nd	65·0	47·6	55·9	− 1·1	97	0	3	0·33	—	61·0	—	71	—	*Felixstowe.*
	a Clacton-on-Sea ..	68	18th, 20th	43	18th, 22nd	65·0	46·4	55·3	− 1·2	93	0	3	0·35	—	61·4	—	71	—	Clacton.
	a Rothamsted ..	66	19th	35	23rd	62·8	42·2	52·0	− 2·6	70	0	3	0·51	+ 0·01	47·6	+14·6	55	+17	Rothamsted.
	a Shoeburyness ..	68	18th	40	23rd	65·3	46·0	55·2	− 2·5	92	0	4	0·31	− 0·13	49·3	—	57	—	*Southend.*
	p Tottenham	73	18th	40	22nd, 23rd	66·8	45·6	55·7	− 0·7	96	0	3	0·52	—	49·1	—	57	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	63	18th	38	22nd	60·4	44·2	51·9	− 1·1	69	0	3	0·47	− 0·11	39·6	—	46	—	Harrogate.
	a Bawtry	67	19th	32	22nd	63·7	41·3	52·0	− 2·4	73	2	3	0·64	+ 0·25	32·1	+ 5·3	37	+ 6	Worksop.
	p Buxton .. M	60	19th, 20th	32	21, 22, 23rd	56·3	39·1	47·3	− 4·0	49	8	4	0·78	− 0·07	25·9	—	30	—	*Buxton.*
	a Nottingham ..	67	20th	34	22nd, 23rd	63·6	39·1	50·8	− 4·0	74	8	4	0·42	− 0·04	28·3	—	33	—	Nottingham.
	p Birmingham, Edgbsn	65	20th	40	21st, 22nd	61·1	44·5	52·4	− 2·1	73	0	3	0·57	+ 0·10	16·5	—	19	—	Birmingham.
	a Raunds .. 𝔐	67	18, 19, 23rd	33	22nd	65·8	41·3	53·0	− 1·8	80	2	3	0·52	—	*	*	*	*	* *
	a Oxford	68	18th	37	22nd	63·3	44·4	53·4	− 1·9	80	0	3	0·67	+ 0·24	41·9	+ 9·1	49	+11	Oxford.
b, West.	a Cheadle .. 𝔐	64	20th	38	22nd	59·6	43·7	51·3	− 1·9	65	0	3	0·94	+ 0·32	37·3	—	43	—	Sheffield.
	p Shrewsbury	65	20th	33	22nd	61·0	41·5	50·8	− 4·3	64	1	4	0·66	—	*	*	*	*	* *
	a Hereford .. 𝔐	68	18th	32	22nd	61·5	41·3	50·9	− 4·0	65	2	3	0·73	+ 0·28	*	*	*	*	* *
	a Cirencester	66	18th	34	22nd	61·6	41·4	51·0	− 3·4	66	2	3	0·29	− 0·26	36·6	+ 5·3	43	+ 6	Cirencester.
	a Bath	65	18th, 20th	34	22nd	62·4	37·9	49·6	− 6·7	70	11	4	0·47	− 0·09	37·2	—	43	—	Bath.
															54·7	—	64	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	67	18th	40	22nd	63·6	44·0	53·3	− 2·4	79	0	3	0·51	+ 0·02	48·7	+17·0	57	+20	Kew.
	a Marlborough ..	67	18th	29	22nd	62·6	37·7	49·6	− 2·9	71	12	3	0·39	− 0·14	37·7	+ 8·7	44	+10	Marlborough.
	a Margate	69	20th	47	23rd	65·5	51·4	58·1	+ 0·6	113	0	4	0·53	+ 0·06	56·5	+22·6	66	+26	Margate.
	a Wisley, Surrey ..	68	18th	35	22nd	64·5	42·1	52·8	− 3·5	76	0	3	0·32	—	51·8	—	60	—	Wisley.
	a Swarraton .. 𝔐	66	18th, 19th	32	19th	62·9	39·2	50·5	− 3·9	71	8	3	0·50	− 0·05	53·8	—	63	—	Worthing.
	a Tunbridge Wells 𝔐	67	18th	38	22nd	63·9	42·9	52·9	− 2·7	76	0	3	0·76	+ 0·20	58·8	+23·2	68	+27	Tunbridge Wells.
	a Dungeness	67	20th	42	18, 22, 23rd	64·1	45·1	54·1	− 3·6	85	0	3	0·43	− 0·09	56·5	—	66	—	Littlestone.
	p Hastings	67	18th, 20th	45	22nd	64·7	48·9	56·4	− 1·0	101	0	3	0·54	− 0·11	58·4	+20·5	68	+24	*Hastings.*
	p Southampton ..	69	18th	38	22nd	64·2	43·5	53·4	− 2·9	80	0	4	0·80	+ 0·25	42·4	+ 6·4	49	+ 7	Southampton.
	a Ventnor	68	19th	45	22nd	64·0	50·5	56·9	− 1·9	104	0	4	0·55	− 0·07	40·3	+ 1·7	47	+ 2	Ventnor.
															56·8	+18·9	66	+22	Eastbourne.
LONDON .. — ..	*a Westminster* ..	69	18th	41	22nd	65·0	47·0	55·6	− 0·9	95	0	4	0·48	+ 0·02	47·2	+21·4	55	+25	*Westminster.*
	a Greenwich	69	18th, 19th	38	22nd	66·0	44·3	54·6	− 2·3	88	0	3	0·63	+ 0·18	52·8	+18·0	61	+21	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. 𝔖	59	23rd	35	21st, 22nd	56·4	46·0	51·0	− 2·3	63	0	7	1·69	+ 0·55	*	*	*	*	* *
	p Glasgow	61	19th	36	22nd	58·6	46·6	52·3	− 0·1	72	0	4	0·37	− 0·40	19·0	− 3·7	22	− 4	Glasgow.
	p Rothesay .. 𝔖	64	19th	38	21st, 22nd	60·0	46·4	52·9	− 0·3	76	0	7	1·05	+ 0·05	*	*	*	*	* *
	a Kilmarnock	61	19th	34	21st, 22nd	59·3	45·4	52·0	− 0·6	70	0	5	0·67	—	18·0	—	21	—	*Kilmarnock.*
	a Colmonell .. 𝔖	64	17th	32	21st, 22nd	60·4	44·3	52·0	− 1·7	70	0	4	0·85	− 0·11	*	*	*	*	* *
	p Dumfries .. 𝔖	64	18th	30	22nd	60·4	45·6	52·6	− 1·0	74	0	3	0·46	− 0·25	21·2	—	25	—	*Dumfries.*
	p Cally, Gatehouse 𝔖	63	18th, 19th	33	22nd	61·2	41·0	50·6	− 1·8	64	3	4	1·01	+ 0·09	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	62	18th	42	21st	58·4	48·4	53·2	− 0·3	78	0	3	0·99	+ 0·09	23·4	− 9·4	27	−11	Douglas.
															18·9	—	22	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	63	18th	38	22nd	60·5	46·6	53·2	+ 0·6	78	0	4	1·34	+ 0·46	22·5	—	26	—	Aspatria.
	p Newton Rigg ..	64	18th	33	22nd	59·5	43·7	51·2	− 0·4	64	0	3	0·71	+ 0·02	25·0	− 2·9	29	− 3	Newton Rigg.
	p Stonyhurst	62	19th	36	22nd	58·3	44·8	51·2	− 2·3	64	0	3	0·92	− 0·06	19·1	− 9·6	22	−11	Stonyhurst.
	p Blackpool .. M	63	19th	36	22nd	59·6	46·4	52·7	− 2·1	75	0	4	0·77	+ 0·04	17·6	−11·4	21	−13	Blackpool.
	p M'nch'ster, Prestwich	62	19th, 20th	36	22nd	60·5	44·9	52·3	− 1·5	72	0	3	0·66	− 0·14	14·7	−10·6	17	−12	*Prestwich.*
	a Liverpool (Bidston)	62	19th	44	22nd	59·3	48·6	53·7	− 1·1	82	0	4	1·24	+ 0·62	16·7	—	19	—	*Liverpool.*
	a Hawarden Bridge ..	64	20th	39	22nd	60·0	46·0	52·7	− 3·0	75	0	3	0·30	− 0·15	19·8	− 9·9	23	−12	*Southport.*
															20·7	—	24	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	63	23rd	44	21st	60·6	49·2	54·6	− 1·5	88	0	3	0·82	+ 0·25	22·4	− 7·2	26	− 8	Llandudno.
	a Holyhead	63	18th	47	21st	59·9	50·9	55·2	− 0·4	92	0	4	0·94	+ 0·28	13·9	—	16	—	Aberdovey.
	p Bettws-y-Coed ..	64	23rd	37	22nd	60·4	43·6	51·6	− 3·4	67	0	3	0·61	—	15·1	—	18	—	Bettws-y-Coed.
															19·4	—	23	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	63	18th	31	22nd	59·7	38·7	48·7	− 4·2	61	9	5	1·05	—	21·1	—	25	—	Llangammarch Wells.
	a Pembroke	62	19th, 23rd	45	22nd	60·3	49·7	54·8	− 1·2	90	0	6	1·19	+ 0·49	20·8	−12·8	24	−15	Pembroke.
	p Cardiff	64	18th, 19th	40	22nd	60·9	43·9	52·0	− 3·2	70	0	5	1·00	+ 0·17	27·1	—	32	—	*Cardiff.*
															17·2	−17·3	20	−20	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	65	20th	40	22nd	61·5	46·8	53·8	− 2·6	83	0	3	0·49	− 0·14	30·7	—	36	—	*Clifton.*
	a Shaftesbury .. 𝔐	68	18th, 19th	39	22nd	61·4	44·7	52·7	− 2·3	75	0	4	0·49	− 0·15	*	*	*	*	* *
	a Arlington	62	23rd	40	17th	59·4	43·9	51·3	− 3·0	65	0	5	2·48	+ 1·38	28·6	− 6·4	33	− 7	Newquay.
	a Cullompton .. 𝔐	68	18th	34	17th, 18th	64·2	41·2	52·2	− 2·7	75	2	5	0·85	+ 0·25	25·2	− 6·5	29	− 8	Cullompton.
	a Portland Bill ..	66	19th	49	17th	62·7	52·1	57·2	− 0·6	106	0	5	0·40	—	39·9	—	46	—	*Weymouth.*
	p Plymouth	65	17th, 18th	41	19th	62·4	48·0	54·9	− 1·9	90	0	5	1·54	+ 0·90	31·4	− 3·6	37	− 4	Plymouth.
	p Falmouth	64	23rd	46	21st	60·6	49·8	54·9	− 1·8	90	0	6	1·77	+ 0·97	30·2	− 5·8	35	− 7	Falmouth.
															37·1	—	43	—	*Salcombe.*
															38·1	+ 1·7	44	+ 2	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	64	23rd	46	21st, 22nd	58·4	49·0	53·5	− 0·5	81	0	5	0·37	− 0·33	*	*	*	*	* *
	a Blacksod Point ..	61	23rd	45	21st	58·9	49·3	53·9	− 0·2	83	0	5	1·50	+ 0·52	*	*	*	*	* *
	p Markree Castle ..	65	23rd	36	21st	59·8	42·3	50·6	− 2·2	60	0	4	1·09	+ 0·24	27·8	+ 2·8	32	+ 3	Markree Castle.
	a Birr Castle	64	23rd	40	21st	59·3	43·9	51·2	− 2·3	64	0	5	0·71	+ 0·16	19·2	−10·0	22	−12	*Birr Castle.*
b, East.	p Armagh	65	18th, 23rd	37	21st	61·0	45·9	53·1	0·0	78	0	5	0·34	− 0·27	27·5	+ 1·1	32	+ 1	Armagh.
	a Donaghadee	66	18th	39	21st	60·3	46·4	53·0	− 1·3	77	0	4	0·83	+ 0·21	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City.. ..	66	23rd	42	21st, 22nd	59·8	47·7	53·5	− 1·8	81	0	5	0·25	− 0·25	21·4	−11·1	25	−13	Phœnix Park.
	a Kilkenny	65	23rd	38	21st	59·7	45·0	52·0	− 2·2	70	0	5	0·70	+ 0·13	*	*	*	*	* *
	a Waterford	64	23rd	40	18th, 21st	60·7	46·6	53·3	− 1·3	79	0	5	1·11	+ 0·43	*	*	*	*	* *
b, West.	a Birr Castle	64	23rd	40	21st	59·3	43·9	51·2	− 2·3	64	0	5	0·71	+ 0·16	19·2	−10·0	22	−12	Birr Castle.
	a Foynes	63	19th, 23rd	44	21st	59·8	47·7	53·5	− 1·2	81	0	5	0·14	− 0·56	*	*	*	*	* *
	a Cahir .. .. 𝔐	66	23rd	40	18th	60·6	45·5	52·7	− 1·9	75	0	5	0·83	—	*	*	*	*	* *
	a Killarney	—	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	* *
	a Valencia	63	18, 19, 23rd	41	18th	60·4	46·3	53·0	− 2·8	77	0	5	1·71	+ 0·71	28·2	− 1·8	33	− 2	Valencia.
	a Roche's Point ..	64	23rd	46	17th, 21st	61·1	48·7	54·6	− 1·3	88	0	6	0·63	− 0·11	33·9	—	39	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	67	19th	49	21st	62·6	52·4	57·3	− 0·9	107	0	4	1·40	+ 0·76	31·4	− 6·8	37	− 8	Scilly.
	a Jersey, St. Aubins ..	68	18th, 19th	45	19th	64·7	50·0	57·0	− 2·8	105	0	5	0·84	+ 0·18	38·9	− 2·3	45	− 3	St. Heliers.
	a Guernsey	70	18th	49	18th, 19th	64·6	52·1	58·1	− 1·1	113	0	5	0·98	+ 0·24	34·9	− 4·5	41	− 5	Guernsey.

Additional Sunshine Totals for the week: *Brighton 53·4 hrs. (+16·0 hrs.) 62 % (+19 %); Bournemouth 39·4 hrs. 46 %; Bognor — hrs. — %.* For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	51·8	—
1. Aberdeen	—	—	—	53·9
1. Crathes	3	24	53·3	54·8
1. Balmoral	3	22	—	—
1. West Linton	—	—	—	—
1. Marchmont	2	27	52·7	—
2. Cockle Park	0	32	51·8	54·8
2. Durham	1	30	—	—
2. York	—	—	56·6	57·7
2. Hull	1	30	54·1	57·1
2. Lincoln	—	—	55·7	58·2
2. Rauceby	2	26 ?	57·6	60·0
3. Norwich	0	31	—	—
3. Yarmouth	—	—	59·4	62·3
3. Lowestoft				
3. Cambridge	3	27	57·3	61·1
3. Clacton-on-Sea	0	35	58·3	60·2
3. Southend	0	37	62·1	—
3. Tottenham	0	34	—	63·9
4. Harrogate	0	32	54·3	55·8
4. Huddersfield	1	28	56·2	57·6
4. Buxton	2	27	54·7	56·6
4. Sheffield	1	30	55·6	57·0
4. Nottingham	1	29	54·2	59·6
4. Birmingham	1	27	53·7	55·9
4. Oxford	0	—	—	—
4. Hereford	5	22	—	—
4. Cirencester	0	31	56·3	58·8
4. Bath	—	—	58·4	61·3
5. Margate	0	39	58·5	60·7
5. Greenwich	2	29	—	—
5. Westminster	0	38	—	—
5. Kew	1	29	56·6	59·2
5. Canterbury	0	34	59·8	62·9
5. Tunbridge Wells	0	31	57·2	—
5. Wisley	2	28	56·9	61·0
5. Worthing	0	38	58·6	61·9
5. Portsmouth	0	34	59·1	62·6
6. Glasgow	2	28	—	—
6. Rothesay	—	—	—	54·5
6. Colmonell	2	30	—	—
6. Dumfries	2	27	55·6	58·1
6. Douglas	0	38	—	—
7. Aspatria	1	29	54·5	55·1
7. Newton Rigg	2	26	55·4	55·6
7. Burnley	1	28	53·9	56·1
7. Southport	0	34	56·0	59·3
7. Manchester City	0	33	56·9	60·9
7. Bettws-y-Coed	0	36	52·9	55·3
8. Llangammarch Wells	5	18	53·8	56·5
8. Cardiff	0	32	55·8	60·0
8. Clifton	0	36	—	—
8. Plymouth	0	35	58·2	—
9. Armagh	0	32	56·5	57·3
9. Markree	0	31	56·4	57·2
10. Dublin, Trin. Coll.	1	29	56·4	58·1
11. Guernsey, Brooklyn	0	38	61·6	64·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	53	53	53·0
	Kirkwall	54	51	52·9
	Wick	52	50	51·4
SCOTLAND E.	Cromarty	56	53	54·5
	Pennan Bay	56	53	55·1
	Aberdeen, Cove Bay	55	54	54·7
ENGLAND, N.E.	Burnmouth, Berwick	52	51	51·6
	Scarborough	59	49	54·2
ENGLAND, E.	Shipwash Lightship	64	60	62·9
	Margate‡	63	61	61·5
ENGLAND, S.E.	Eastbourne‡	63	62	62·7
SCOTLAND, W.	Lamlash	56	55	55·6
	Ballantrae	59	47	52·5
ENGLAND, N.W.	Port Erin	58	57	57·2
ENGLAND, S.W.	Newquay	62	60	60·9
	Scilly	60	57	58·5
	Plymouth‡	60	60	60·1
	Salcombe	61	58	59·6
IRELAND, N.W.	Sheephaven	59	57	58·1
	Teelin	60	56	58·3
IRELAND, S.W.	Cleggan	57	53	55·2
	Seafield	60	55	57·6
IRELAND, E.				

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR AUGUST, 1911.

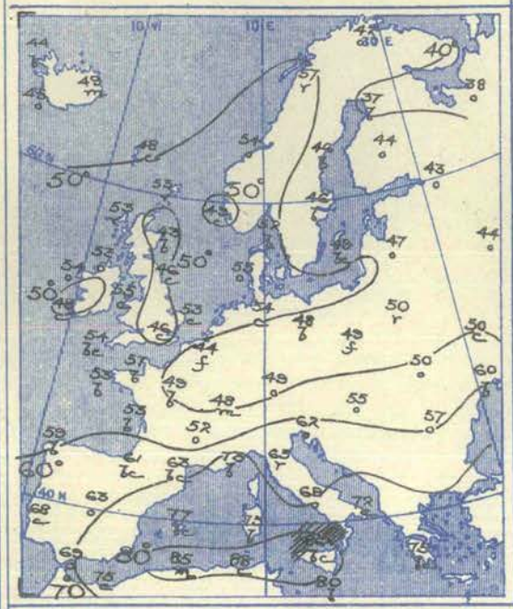
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 33, p. 266	2. England, N.E.	—	—	—	—	—	—	—	—	—	—	—	0·02	−0·56	—	—	—	—
Station Values.— Additions.																		
No. 32, p. 259	Salcombe	—	—	—	—	—	—	—	—	—	—	—	—	—	77·3	—	74	—
No. 33, p. 267	Salcombe	—	—	—	—	—	—	—	—	—	—	—	—	—	76·0	—	75	—
No. 34, p. 275	Cally (S)	72	20th	45	22rd	66·6	50·8	58·2	+ 2·7	113	0	4	0·40	− 0·66	—	—	—	—
Station Values.— Corrections.																		
No. 31, p. 251	Strathpeffer	—	—	—	—	—	—	—	—	—	—	2	0·04	− 0·57	—	—	—	—
No. 31, p. 251	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	1·28	+0·52	—	—	—	—
No. 31, p. 251	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	58·7	+6·8	55	+6
No. 32, p. 259	Buxton	—	—	—	—	—	54·5	64·7	+ 8·3	159	—	—	—	—	—	—	—	—
No. 32, p. 259	Hereford (M)	92	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 32, p. 259	Stonyhurst	80	8, 9	—	—	73·9	55·8	64·3	+ 6·6	156	—	—	—	—	—	—	—	—
No. 32, p. 259	Pembroke	—	—	—	—	69·6	—	63·4	+ 4·8	150	—	—	—	—	—	—	—	—
No. 32, p. 259	Markree Castle	—	—	—	—	—	52·0	60·7	+ 4·2	131	—	—	—	—	—	—	—	—
No. 32, p. 259	Cahir (M)	—	—	—	—	—	54·0	62·0	+ 3·5	140	—	—	—	—	—	—	—	—
No. 33, p. 267	Lincoln	—	—	—	—	—	—	—	—	—	—	—	0·02	− 0·49	—	—	—	—
No. 33, p. 267	Cheadle (M)	—	—	—	—	—	54·7	65·7	+ 8·7	166	—	—	—	—	—	—	—	—
No. 33, p. 267	Llandudno	—	—	—	—	74·5	—	66·4	+ 7·1	171	—	—	—	—	—	—	—	—
No. 33, p. 267	Birr Castle	—	—	—	—	78·3	—	65·9	+ 8·3	167	—	—	0·14	− 0·76	—	—	—	—
No. 34, p. 275	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	25·9	− 6·7	26	− 7
No. 34, p. 275	Cambridge	—	—	—	—	73·1	—	64·4	+ 4·4	157	—	—	—	—	—	—	—	—
No. 34, p. 275	Wisley	86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 34, p. 275	Blackpool	—	—	—	—	—	—	—	—	—	—	5	0·64	− 0·20	—	—	—	—
No. 34, p. 275	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	48·8	+6·3	49	+6
No. 34, p. 275	Birr Castle	—	—	—	—	—	50·9	59·1	+ 2·0	120	—	—	—	—	—	—	—	—
No. 35, p. 233	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	46·5	+4 2	48	+6
Station Values.— Additions.															Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 32, p. 260	Hereford (M)														0	43	—	—
No. 32, p. 260	Portsmouth														0	54	72·7	65·4
No. 32, p. 260	Dublin, Trin. Coll.														0	42	64·3	60·6
No. 34, p. 276	Bath														—	—	66·9	64·6

Sunday, 17th September, 1911.

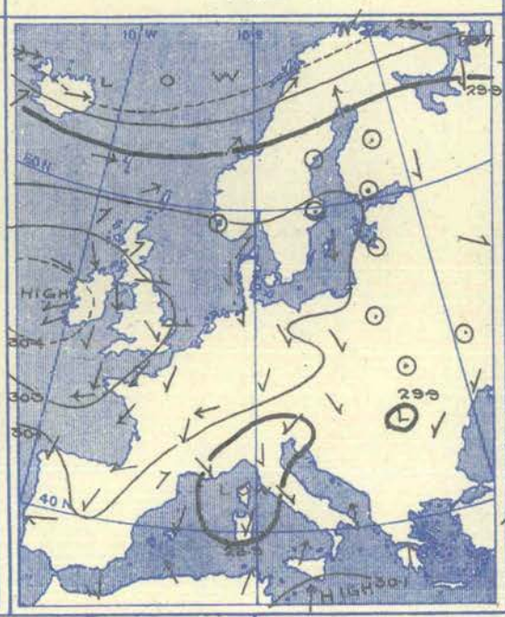
Temperature and Weather.

7 a.m.

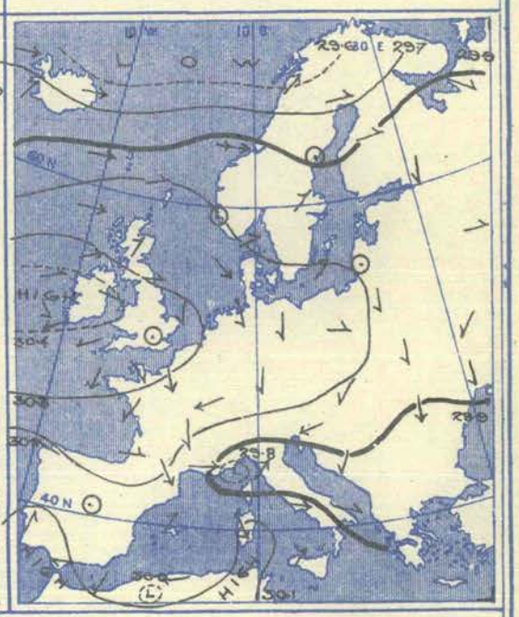


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over the major portion of our area, but overcast in some localities, and rainy in Shetland and the Hebrides, and also at Bodö, Breslau, Florence and Bilbao. Rain later in the north of Italy and at Naples; 1·2 in. at Turin and 1·4 at Pesaro. Smaller amounts in Austria-Hungary, the south of Russia, and in Scandinavia.

Temperature changed rather irregularly. Morning readings ranging from below 40° in the north of Russia and at Uleaborg and very little above it in central England to between 60° and 70° over the greater portion of the Mediterranean region, to 86° at Palermo, and 88° at Cape de Garde. Maxima during day not much above 60° over the United Kingdom, Germany, and the north of France, but above 80° at many places in southern Europe, and above 90° in a few localities. Thermometer rising to 102° at Palermo and to 106° at Tunis.

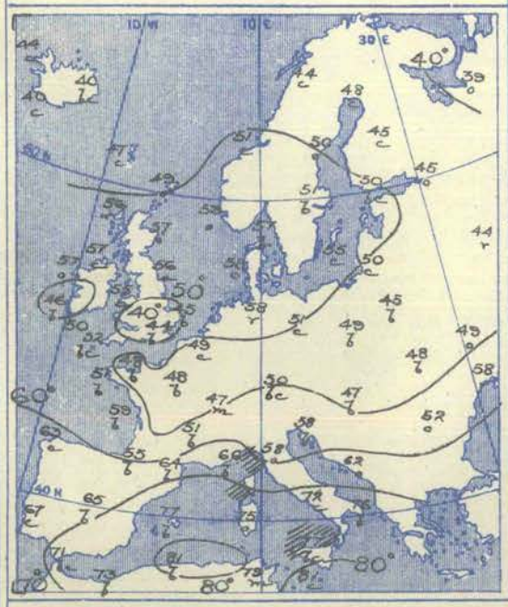
Wind in morning anticyclonic over these Islands and most of the mainland of Europe; cyclonic both in the north and south of our area. Westerly current strong to a gale in Iceland and on the north-west coast of Norway. Little force elsewhere, but a strong breeze from South prevailing at Palermo. Little change taking place in the north, but fresh to strong breezes from various points setting in over Italy and its neighbourhood.

Barometer in morning above 30·4 in. in a very large high pressure system centred on the Atlantic to the west of Ireland and relatively high thence to Finland. Below 29·6 in. in a depression between northern Norway and Iceland, and below 29·9 in. in another over Italy and its vicinity. No change in the general situation during day, but northern depression moving eastward and that in the south undergoing some modification in form and extending eastward to the south-east of Europe.

Monday, 18th September, 1911.

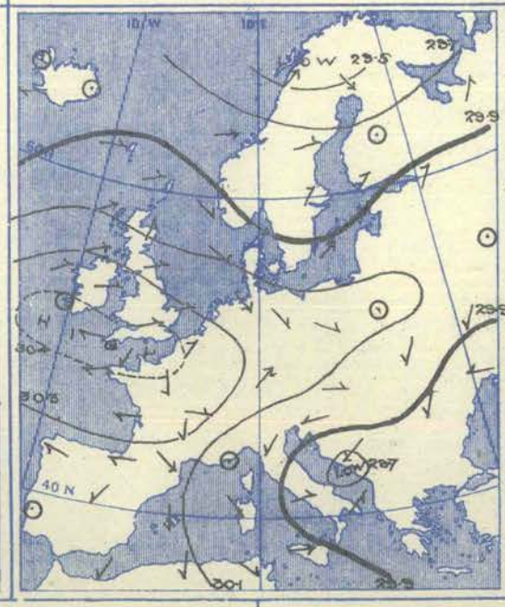
Temperature and Weather.

7 a.m.

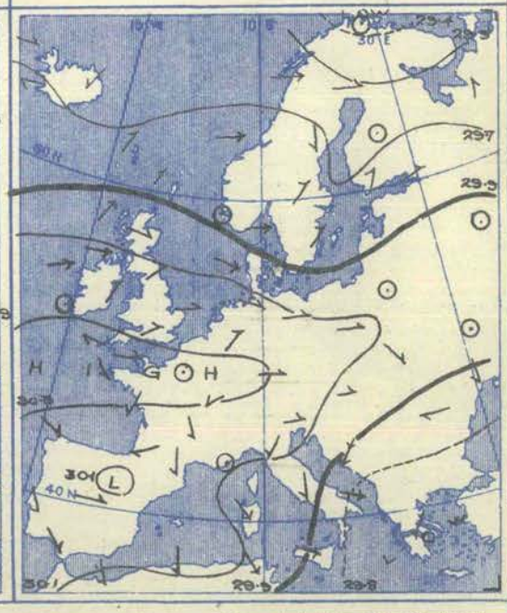


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the major portion of our area, but overcast at many northern stations, with rain in the north of Scotland and at Moscow. Rain also falling at Prague and Odessa. Rain experienced later in Germany, Transylvania, southern Italy and the adjacent Islands, as well as at many stations in Scandinavia and Russia; as much as 1·2 in. at Nicolaieff.

Temperature risen over the northern districts of Great Britain and Ireland and at various places in northern Europe. Morning readings 39° at Archangel, about 50° in Scandinavia and central Europe, 59° in the east of Scotland and the north of Italy; above 70° at many stations on the shores of the Mediterranean, and 81° at Algiers and Malta. Rising to 70° during day at Aberdeen and to 68° in various parts of Britain. Remaining below 60° over a large area in Austria, and exceeding it by very little in Germany, but rising to between 70° and 80° in France, to above 80° in the Spanish Peninsula and Greece, and to 93° at Algiers

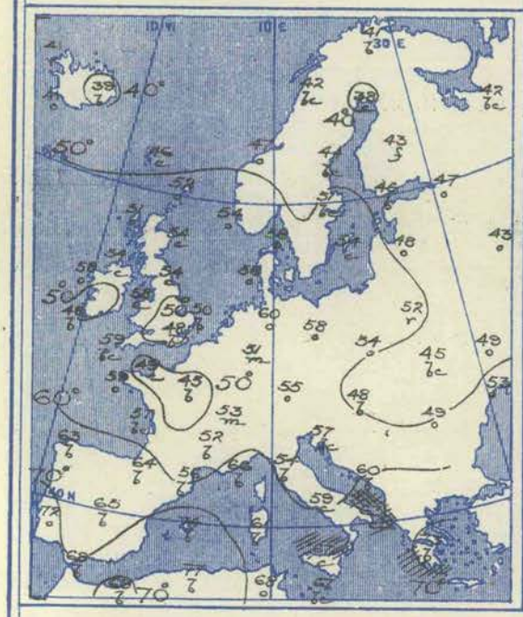
Wind in morning anticyclonic over the United Kingdom, all the central regions of the Continent, and in central Russia; cyclonic both in the extreme north and south of our area. Westerly and South-Westerly current high on the west coast of Norway; a high wind from North-East prevailing at Lesina, and fresh or strong North-Westerly breezes in Corsica and Sardinia. Becoming more cyclonic during day and increasing somewhat in force from West in the north-west of these Islands. North-Easterly wind blowing a gale at Lesina by evening.

Barometer in morning above 30·4 in. in a very large high pressure system centred over the English Channel and its vicinity; below 29·7 in. in a drepession over the Adriatic, and below 29·5 in. in the far north of Scandinavia. A fresh fall of the barometer setting in over Iceland during day and extending to these Islands. Anticyclone moving southward and decreasing in intensity. Southern depression moving south-eastward and becoming less well marked.

Tuesday, 19th September, 1911.

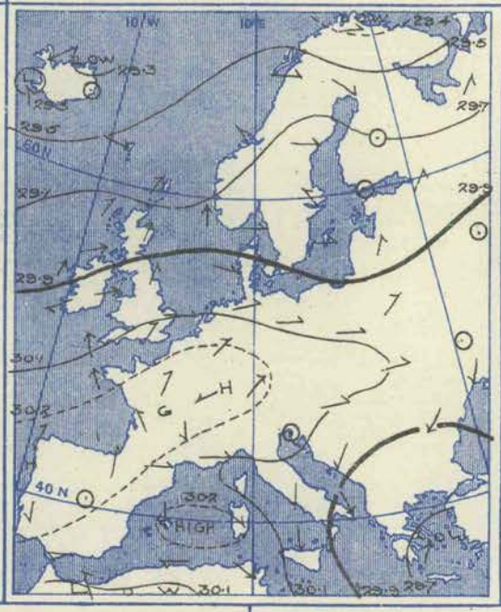
Temperature and Weather.

7 a.m.

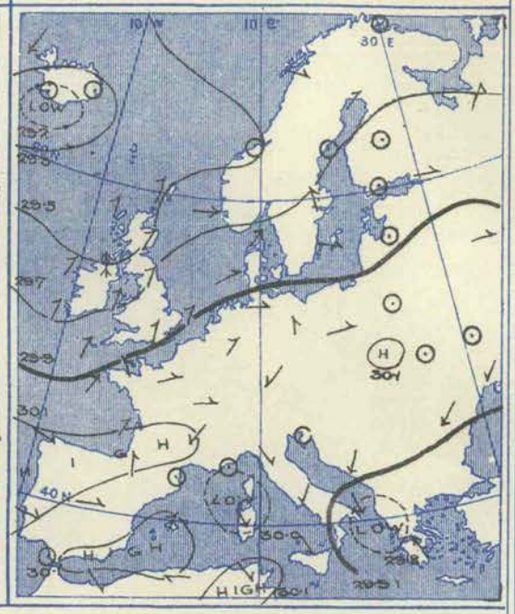


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine in the southern countries, cloudy or overcast in nearly all the more northern regions. Rain falling later throughout the United Kingdom and the north of France; about 0·5 in. in some parts of England and Ireland, 0·8 in. at Newquay. Slight local falls in Germany and other portions of the Continent, and as much as 0·7 in. at Patras and 1·2 in. at Bucharest.

Temperature fallen generally, risen over central Europe. Morning readings ranging from 80° at Barcelona and above 70° at a few other stations on the shores of the Mediterranean to a little above or below 50° over a very large area, and to below 45° in central England and at many stations in the north of the Continent. **Maxima during day** about 65° in many parts of Great Britain and central Europe; above 70° over most of France and southern Europe, and above 80° in Spain and Portugal. Thermometer touching 100° at San Fernando.

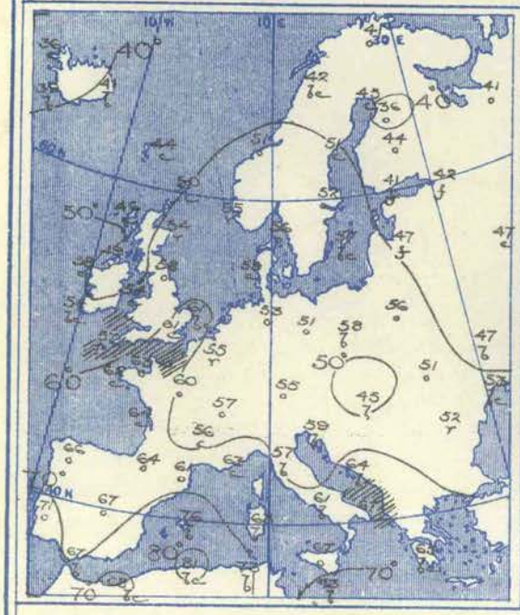
Wind in morning mainly between West and South-West over the northern half of our area; fresh on the north-west coast of Ireland, light or moderate elsewhere. Rather variable over southern Europe and the Mediterranean, but mainly Northerly in the south-eastern regions; high at Brindisi, strong at Palermo, and fresh at Malta. A strong to high wind from the Southward at Patras and Athens. Backing and increasing considerably in force later in these Islands, rising to a gale at Malin Head and Lerwick. High winds or strong breezes from the Northward setting on the Adriatic.

Barometer in morning above 30·2 in. in an anticyclone extending from Bavaria to beyond the Spanish Peninsula; below 29·7 in a depression over Greece, and below 29·3 in. in another over Iceland. Iceland depression moving south-eastward later and a secondary disturbance approaching the United Kingdom from the Atlantic. Depression over Greece apparently moving north-westward towards the Adriatic.

Wednesday, 20th September, 1911.

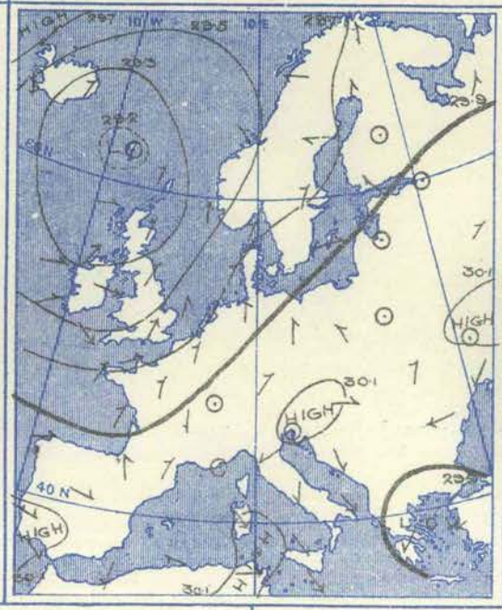
Temperature and Weather.

7 a.m.

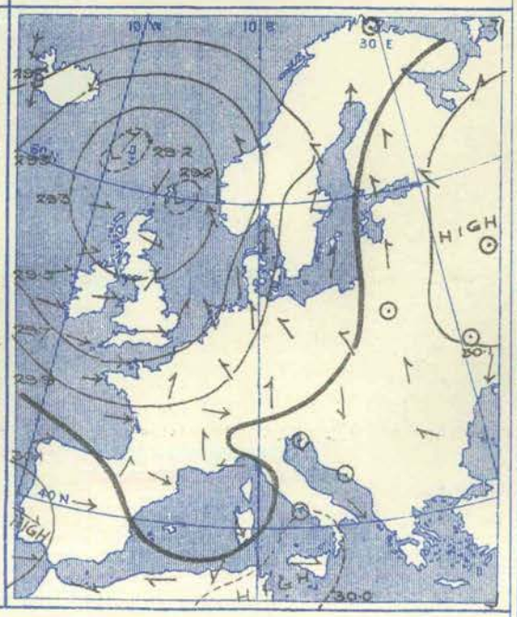


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast at most stations in these Islands and the nearer regions of the Continent, with rain in a few places; overcast at several stations in the central and northern countries, generally fair to very fine in the south. Rain experienced later in these Islands and over a very large area on the Continent. Amounts heavy at Skudesnaes, many French stations, and at Bilbao and over the northern half of Italy; moderate to considerable in several other regions. Thunderstorms occurring in several parts of France.

Temperature risen briskly over England, France, and Belgium, fallen in Ireland and Scotland. Morning readings ranging from 81° at Algiers, 78° at Barcelona, and above 70° at some other places in the far south to about 60° in the south of England, to below 50° in several parts of Ireland and Scotland and at many stations on the Continent, and to 36° in the north of Finland. Maxima during day above 65° at a few of our own stations and in central Europe, and above 70° in France and southern Europe. Thermometer touching 91° at Cape de Garde.

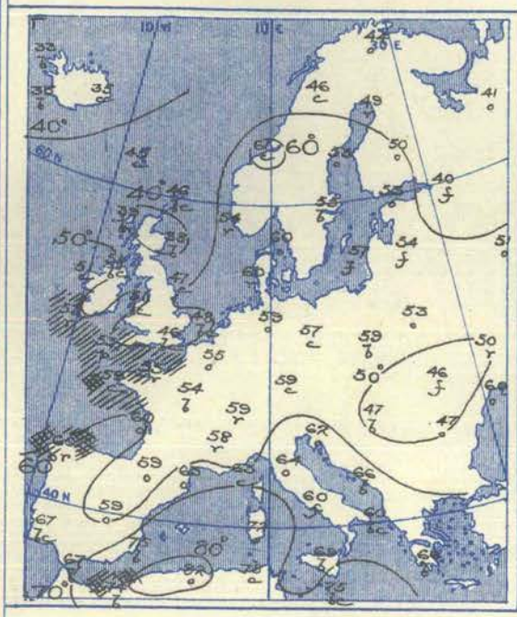
Wind in morning showing a very extensive cyclonic movement over the north-west of our area; Northerly current blowing a gale in Iceland, and that from Westward strong in the south-west of these Islands, but little force elsewhere. Gale continuing all day in Iceland, and a high wind from south-west experienced at Portland Bill in the evening. No change of importance taking place over our area generally.

Barometer in morning about 30·3 in. at the Azores, and above 30·1 in. in various parts of southern Europe. Below 29·2 in. in a large depression centred near Thorshavn. Depression undergoing some modification in form later, and pressure giving way considerably over the south of Europe and the Mediterranean. Barometer rising decidedly in Iceland.

Thursday, 21st September, 1911.

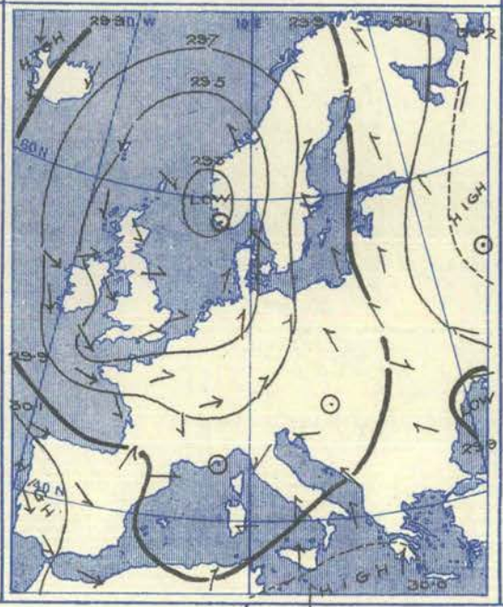
Temperature and Weather.

7 a.m.

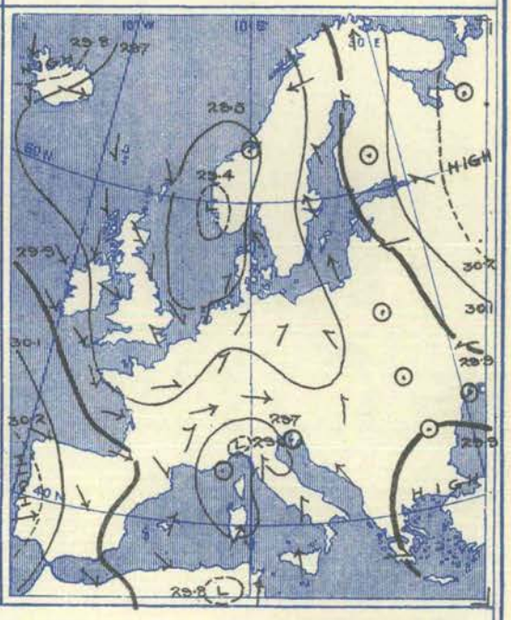


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable in these Islands and their neighbourhood, fair in most places but rainy or showery at several stations. Rain falling in a few localities in southern Europe, and sky cloudy or overcast over a very wide area. Slight or moderate rain later in many parts of these Islands, more than an inch at various places in the north and west of France and at Helder, about 2·0 in. at Skudesnaes, and extremely large quantities in Italy. Nearly 3 inches at Naples and 4·5 in. at Rome.

Temperature fallen over the United Kingdom, risen in Germany and Scandinavia. Morning readings ranging from 32° at Algiers, and above 65° at many other stations in the south to little above 40° in the central parts of England and Ireland, and also in the extreme north-east of the Continent, and to 33° at Nairn. Maxima during day about 60° at many places in these Islands and the north of France, about 70° a little farther south and above 80° on different shores of the Mediterranean.

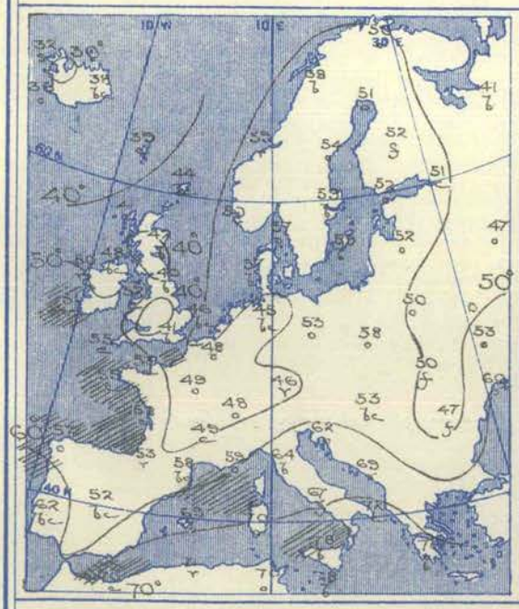
Wind in morning cyclonic over our area as a whole. Northerly and North-Westerly currents strong to a gale in Iceland, strong in the west of Ireland, and blowing a gale at Scilly. Light or moderate breezes prevailing in most other regions, but South-Easterly current strong in the Skager Rack. A strong to high wind from the North-Westward prevalent at Malaga and Oran. Wind continuing fresh or strong during day in the west of these Islands, and gale increasing in strength at the Scilly Isles. Backing to South in Ireland at night. No great change occurring on the Continent.

Barometer in morning above 30·2 in. over the north of Russia and above 30·4 in. at the Azores. Below 29·3 in. in a very large depression having its minimum off the south-west coast of Norway. A small secondary disturbance shown over the south-west of England and another in Scotland. Barometer rising during day in the west of these Islands, but falling again at night. Little modification taking place in the general distribution.

Friday, 22nd September, 1911.

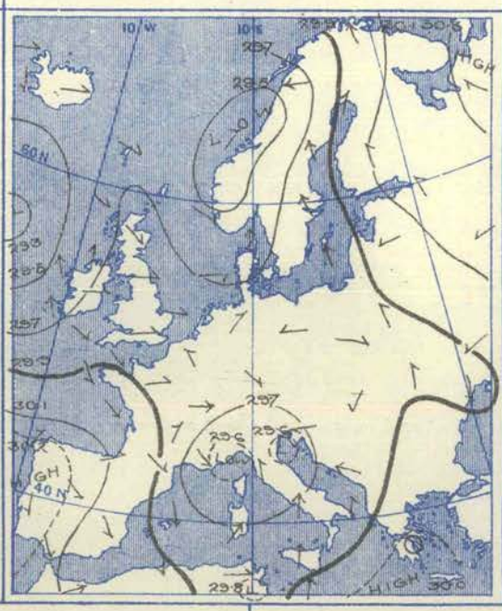
Temperature and Weather.

7 a.m.

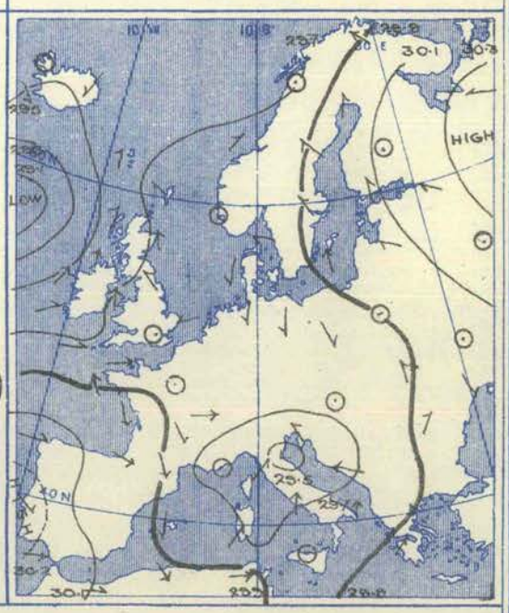


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the major part of Great Britain, but with a good deal of mist or fog, especially over Central England, cloudy or dull on our western coasts generally, with rain in several parts of Ireland, fine locally on the Continent, but unsettled generally, with rain in scattered localities. Rain falling during day at all our own western and north-western stations, amounts considerable, but heavy rain in different parts of Europe, 0·9 in. at Dunkirk, 1·4 in. at Biarritz, 2·2 in. at Leghorn, and 3·5 in. at Pesaro.

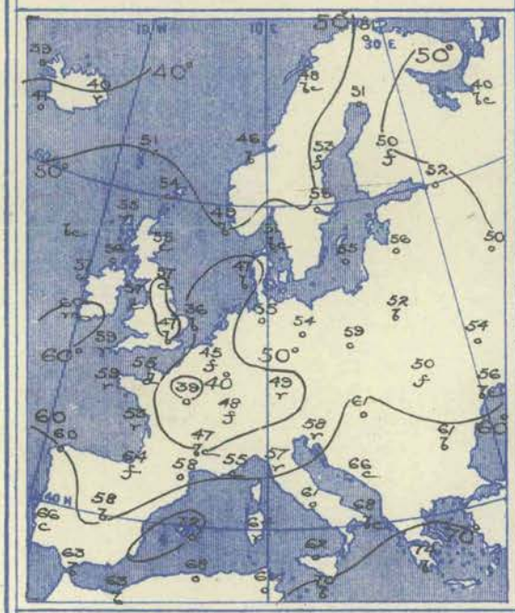
Temperature fallen decidedly over Central England and also over Central Europe. Morning readings in our Islands below 50° except on our south-west coasts, and as low as 34° at Nottingham, and 35° at Bath; below 50° over north-eastern Russia and the central parts of Germany and France, above 70° over the southern part of the Mediterranean only. Maxima during day below 60° over the greater part of the British Isles, and below 65° over Northern and western Europe, but rising to between 70° and 80° in the south generally, and to 88° at Palermo.

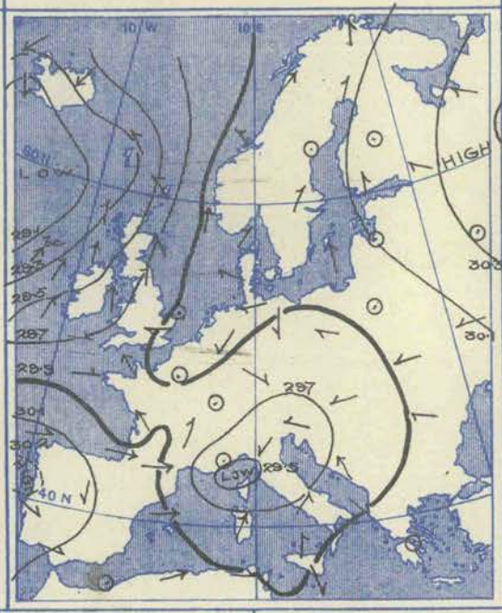
Wind in morning light to fresh from south or south-east on our extreme western coasts, and light from west or north-west over Great Britain as a whole, calm in Central England, variable over the Continent generally, north-westerly, moderate to fresh, in the west of France, and southerly or south-easterly, light to strong over Sweden and northern Russia. Increasing to a fresh to high wind on most parts of our northern and western coasts during day, veering to south-west in Ireland later. Not much change on the Continent.

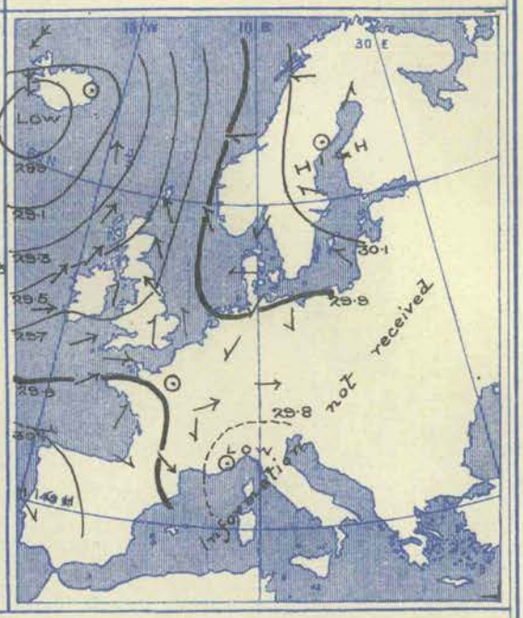
Barometer in morning highest 30·3 in. and upwards between the Azores and Portugal and also over north-eastern Russia, lowest 29·6 in. to 29·3 in. in a depression on the Atlantic, 29·5 in. and less in another over Norway, and below 29·6 in. in a complex system over the Gulf of Genoa and northern Italy. Atlantic disturbance advancing towards Scotland during day, and growing deeper, depression over Norway passing away northward, but that over southern Europe remaining almost stationary.

Saturday, 23rd September, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair or fine over the eastern half of Great Britain, but dull and rainy over our western districts generally. Very variable on the Continent, fine and bright on the eastern shores of the North Sea and at some stations in southern and south-eastern Europe, but mostly cloudy or dull, with rain in the west of France and at several Italian stations. Rain during day in all parts of the British Islands and in most parts of France and Germany, more than half an inch at Spurn Head and Lerwick and 1·1 in. at Biarritz.

Temperature risen decidedly over the British Islands and to a less extent over the Spanish Peninsula and Eastern Europe, fallen briskly over Central France and the Mediterranean region generally. Morning readings about 40° in Iceland and locally at Paris, and below 50° in many parts of Northern and Central Europe, between 60° and 70° in the south of our area as a whole. Maxima during day below 60° in Central Germany and at some of our own northern and north-western stations, but about 65° over the south of our Islands and over France generally.

Wind in morning light to fresh or strong from between south-east and south-west over the British Islands generally, with a gale at Malin Head. A cyclonic circulation shown over the Mediterranean region, the west and north-west winds being fresh to high in many places; variable over the Continent as a whole. Veering to the south-westward during day on our extreme north-west coasts, and decreasing somewhat in force, little change elsewhere.

Barometer in morning highest 30·3 in. and upwards over northern Russia, and above 30·2 in. between Spain and the Azores; lowest below 29·1 in. in a depression to the southward of Iceland, and 29·7 in. to 29·5 in another system over the Gulf of Genoa and the neighbouring parts of France and Italy. Atlantic disturbance moving nearer to Iceland during day and barometer falling quickly in that country. V-shaped secondary shown over St. George's Channel at 6 p.m.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 39. THIRTY-NINTH WEEK, SUNDAY, SEPTEMBER 24TH, TO SATURDAY, SEPTEMBER 30TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition was very unsettled, and almost every part of the Kingdom experienced frequent rain, the falls being heavy in many localities. There were, however, considerable intervals of fair to bright weather.

Temperature differed little from the normal over the Kingdom as a whole, but was below it in Ireland and Scotland, and above it over the greater portion of England. The highest of the maxima were recorded during the earlier days of the week (on the 24th at many stations) and ranged from 72° in England E., 71° in the Midland Counties, and 70° in England S.E., and the English Channel to 63° in Ireland N., and to 62° in Scotland N. On the 30th the thermometer remained below 50° in some parts of Scotland. The lowest of the minima, which occurred either on the 29th or 30th over the major portion of the Kingdom, varied from 28° in Scotland E. (at Balmoral on the 25th) to 32° in Ireland S., to 39° in England E. and Ireland N. and to 47° in the English Channel. The lowest grass readings reported were 21° at Llangammarch Wells, 23° at Crathes, 24° at Balmoral, 27° at Kew and Hereford, and 28° at Cambridge.

Mean Temperature of the Sea. On nearly all parts of the coast the water was warmer than during the corresponding week of last year, but the difference was not large. The means for the week ranged from 62° at the Shipwash Lightship, 61° at Margate, and 60° at Newquay and Salcombe, to 51° at Ballantrae and Burnmouth, and to 50° at Wick and Kirkwall.

Rainfall differed greatly in amount in the various districts. At most places in the north-east and east of England and in the north of Scotland and the south of Ireland the total fall was largely in excess of the normal, but in most other districts there was a deficit. Falls of more than an inch occurred in some Irish, Scottish, and Welsh localities, the largest being 3·00 in. at Roche's Point, 2·23 in. at Waterford, and 1·40 in. at Bettws y-Coed on the 25th, 1·46 in. at Fort William on the 26th, and 1·30 in. at Cally, Gatehouse, on the 29th.

Bright Sunshine exceeded the average, the excess being large in several parts of Great Britain. The percentage of the possible duration ranged from 61 in England S.E., 52 in England E. and 48 in Scotland E. to 36 in Scotland N. and 35 in Ireland S.

Barometer and Wind. During the early days of the week large depressions in the Icelandic region caused the general direction of the wind in this country to vary between South and South-West, but the current blew with little force. By Tuesday, however, the pressure changes favoured a more Westerly current and an increase in force, a gale from West-South-West being experienced for a time at Malin Head. Towards the end of the week the barometer became lowest over Scandinavia and highest off the south-west of these islands, and the wind veered towards North-West. During the night of Friday the passage of a depression of growing intensity across North Britain produced a much steeper gradient and the wind increased in force from between North and North-West or West very generally. As the disturbance moved away to the Dutch coast it continued to increase in depth, and the wind rose to a gale very generally in the North Sea region, the force of a whole gale being experienced on some parts of our east and south east coasts.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 316.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate
	Rainfall ...	Heavy	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate	Heavy	Light	Moderate	Heavy	Moderate
	Sunshine ...	Very abundant	Very abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 4 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 1	1 * 0	1 * 0	2 * 0	1 * 1	2 * 1	1 * 1	1 * 1	2 * 1	1 * 1	1 * 1	2 * 0
	Rainfall ...	2 * 1	0 * 1	2 * 1	1 * 1	0 * 1	0 * 1	0 * 2	2 * 1	1 * 2	0 * 2	1 * 1	2 * 1
	Sunshine ...	2 * 1	2 * 0	3 * 0	4 * 0	3 * 0	4 * 0	2 * 1	2 * 1	2 * 1	2 * 0	1 * 1	1 * 1

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10010/450 Wy. & S., Ltd. 10-11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
THIRTY-NINTH WEEK—September 24th to September 30th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	62	35	53·5	42·7	47·9	− 1·8	41	− 15	0	− 2	6	+ 1	1·70	+0·44	30	+ 10	36	+12
Eastern																		
1. SCOTLAND, EAST	66	28	56·7	40·3	48·1	− 2·0	50	− 9	5	+ 3	4	− 1	0·52	−0·15	40	+ 17	48	+20
2. ENGLAND, N.E.	67	38	59·8	46·1	52·6	+ 0·3	74	+ 1	0	0	4	0	0·84	+0·44	39	+ 12	47	+14
3. ENGLAND, EAST	72	39	64·0	46·9	55·0	+ 1·4	91	+ 9	0	− 1	3	− 1	0·90	+0·37	43	+ 12	52	+14
4. MIDLAND COUNTIES	71	36	61·2	45·4	52·9	+ 0·5	76	+ 1	0	− 1	4	0	0·51	−0·03	38	+ 11	45	+13
5. ENGLAND, S.E.	70	33	64·3	48·2	55·9	+ 0·9	97	+ 5	0	0	4	0	0·38	−0·24	51	+ 20	61	+24
Western																		
6. SCOTLAND, WEST	65	36	56·5	43·8	49·9	− 1·6	55	− 12	0	− 1	6	+ 1	1·28	+0·14	37	+ 13	45	+16
7. ENGLAND, N.W.	65	37	58·5	47·4	52·7	− 0·2	75	− 2	0	0	5	+ 1	1·79	+0·97	32	+ 6	38	+ 7
8. ENGLAND, S.W.	69	37	61·5	49·6	55·3	+ 1·0	93	+ 7	0	0	4	0	0·52	−0·37	33	+ 4	40	+ 4
9 IRELAND, NORTH	63	39	57·2	44·8	50·7	− 1·4	61	− 10	0	0	5	0	0·73	−0·14	31	+ 7	37	+ 9
10. IRELAND, SOUTH	65	32	59·1	47·1	52·8	− 0·7	76	− 4	0	0	5	0	1·54	+0·83	29	+ 1	35	+ 1
11. ENGLISH CHANNEL	70	47	63·6	53·3	58·2	+ 0·7	113	+ 5	0	0	4	− 1	0·37	−0·40	39	+ 3	46	+ 3
THE SEASON (Autumn).—Aggregates, &c., for the Period of 4 Weeks, September 3rd to September 30th, 1911.																		
0. SCOTLAND, NORTH	68	32	*	*	*	*	265	− 9	0	− 3	19	0	3·83	−0·39	100	+ 6	28	+ 2
Eastern																		
1. SCOTLAND, EAST	77	24	*	*	*	*	286	− 8	5	+ 1	11	− 4	1·13	−1·04	136	+ 25	38	+ 7
2. ENGLAND, N.E.	89	32	*	*	*	*	370	+ 24	0	0	11	− 2	2·03	+0·22	172	+ 47	49	+13
3. ENGLAND, EAST	93	33	*	*	*	*	462	+ 70	0	− 1	10	− 2	1·76	−0·06	192	+ 52	55	+15
4. MIDLAND COUNTIES	94	32	*	*	*	*	397	+ 37	0	− 2	10	− 2	1·61	−0·28	170	+ 47	48	+13
5. ENGLAND, S.E.	91	29	*	*	*	*	481	+ 56	0	0	9	− 3	1·28	−0·82	214	+ 71	61	+20
Western																		
6. SCOTLAND, WEST	70	30	*	*	*	*	301	− 17	0	− 1	14	− 1	2·34	−1·45	133	+ 16	38	+ 5
7. ENGLAND, N.W.	85	33	*	*	*	*	368	+ 7	0	0	13	− 1	3·97	+1·22	149	+ 30	42	+ 8
8. ENGLAND, S.W.	91	28	*	*	*	*	449	+ 54	0	0	12	− 2	2·28	−0·58	166	+ 31	48	+ 9
9. IRELAND, NORTH	73	36	*	*	*	*	333	− 2	0	0	14	− 3	1·82	−1·13	142	+ 36	40	+10
10. IRELAND, SOUTH	82	37	*	*	*	*	375	+ 7	0	0	13	− 2	3·03	+0·37	152	+ 27	43	+ 8
11. ENGLISH CHANNEL	89	45	*	*	*	*	567	+ 91	0	0	11	− 4	2·13	−0·26	190	+ 21	54	+ 6
THE YEAR.—Aggregates, &c., for the Period of 39 Weeks, January 1st to September 30th, 1911.																		
0. SCOTLAND, NORTH	84	14	*	*	*	*	2021	+193	415	−145	163	−16	35·58	−0·05	1116	+138	31	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2245	+181	497	−127	136	−12	16·44	−5·30	1308	+145	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2734	+438	371	−104	114	−19	14·92	−2·35	1410	+151	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3148	+496	409	−113	113	−15	13·41	−3·32	1604	+237	45	+ 7
4. MIDLAND COUNTIES	98	14	*	*	*	*	3020	+424	415	−120	98	−29	11·92	−6·73	1403	+181	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3208	+364	361	− 20	97	−25	12·63	−5·58	1720	+334	48	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2513	+292	347	− 79	140	−15	26·95	−5·69	1371	+172	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2794	+366	314	− 72	119	−23	21·10	−2·86	1480	+264	41	+
8. ENGLAND, S.W.	91	13	*	*	*	*	3055	+368	297	− 4	110	−29	19·31	−6·20	1604	+252	45	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2524	+202	302	− 43	134	−35	19·61	−7·20	1335	+238	37	+
10. IRELAND, SOUTH	88	18	*	*	*	*	2950	+296	295	+ 36	140	−10	22·44	−5·40	1417	+185	40	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3426	+364	135	+ 26	114	−34	16·46	−4·61	1799	+153	51	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°		Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*57*	*25th*	*39*	*30th*	*51·2*	*43·6*	*47·2*	—	*36*	*0*	*7*	*1·44*	—	*32·0*	—	*39*	—	*Baltasound.*
	a Lerwick	58	24th	39	30th	51·7	45·9	48·7	− 0·3	47	0	6	1·06	—	30·6	+ 7·1	37	+ 9	Deerness.
	a Stornoway	58	24th	40	30th	53·3	44·3	48·6	− 1·0	46	0	7	1·63	+ 0·51	31·2	+ 6·9	38	+ 8	Stornoway.
	a *Castlebay, Barra Isd.*	*57*	*26th*	*42*	*30th*	*53·6*	*47·3*	*50·3*	− *0·2*	*58*	*0*	*7*	*0·86*	—	*32·2*	—	*36*	—	*Castlebay.*
	a Wick	60	26th	35	30th	53·7	43·6	48·4	− 1·8	45	0	4	0·98	+ 0·39	*	*	*	*	*
b, Mainland.	p Strathpeffer.. ..	62	26th	36	25th, 30th	55·0	39·4	46·8	− 3·1	45	7	6	0·88	+ 0·28	35·7	+10·4	43	+13	Strathpeffer.
	p Glencarron .. S	57	24th, 25th	35	30th	52·5	41·9	47·0	− 1·8	35	0	7	2·87	+ 0·84	*	*	*	*	*
	p Fort Augustus S	60	24th	37	30th	54·2	40·7	47·1	− 3·6	41	4	7	1·31	+ 0·38	22·9	+ 5·1	28	+ 6	Fort Augustus.
	p Fort William S	60	24th	37	30th	54·3	43·1	48·4	− 3·1	45	0	6	3·19	+ 1·44	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	64	24th, 26th	37	30th	57·6	41·5	49·2	− 2·2	53	1	3	0·25	− 0·40	*38·4*	—	*46*	—	*Gordon Castle.*
	a Nairn	63	24th	34	30th	56·1	40·6	48·0	− 2·4	48	4	6	0·47	− 0·04	40·7	—	49	—	Nairn.
	a Aberdeen	66	24th	39	28th, 30th	58·7	42·7	50·3	− 0·9	58	0	3	0·17	− 0·43	41·3	+14·8	50	+18	Aberdeen.
	a Balmoral .. S	61	26th	28	25th	56·1	36·4	45·8	− 1·8	50	16	3	0·23	− 0·47	37·3	—	45	—	Crathes S.
	p Crieff .. .. S	62	24th	35	28th	56·0	39·6	47·4	− 4·1	48	7	4	0·31	− 0·47	43·9	—	53	—	Balruddery.
	a Leith	63	24th, 26th	39	25th, 30th	57·9	43·6	50·4	− 2·2	59	0	3	0·73	+ 0·32	*	*	*	*	*
	p West Linton.. S	61	24th	33	25th, 30th	54·9	37·6	45·8	− 3·6	45	12	7	0·95	—	*33·2*	—	*46*	—	*West Linton.*
	p Marchmont .. S	63	24th	34	30th	56·4	40·6	48·1	− 2·5	49	4	5	1·02	+ 0·36	37·6	+12·8	45	+15	Marchmont.
ENGLAND, N.E. — a, North.	a Alnwick Castle ..	64	24th	38	30th	58·6	45·2	51·6	+ 0·5	67	0	3	0·93	+ 0·29	44·5	—	54	—	Cockle Park.
	a Shields	64	24th	40	28, 29, 30th	58·9	43·7	50·9	− 1·3	62	0	5	0·89	+ 0·40	*35·5*	*+14·8*	*43*	*+18*	*Newcastle.*
	p Durham	64	24th	39	30th	58·3	45·1	51·4	− 0·3	66	0	5	0·69	+ 0·17	36·9	+11·7	45	+14	Durham.
	p Rounton .. M	64	24th	39	30th	58·7	44·8	51·4	+ 0·1	66	0	5	0·93	+ 0·44	*	*	*	*	*
	p Scarborough.. M	67	24th	42	29th, 30th	60·7	45·3	52·6	− 0·7	74	0	5	1·11	+ 0·59	36·8	—	44	—	Scarborough.
	p York	65	24th, 27th	42	30th	60·6	45·9	52·9	0·0	76	0	5	1·25	+ 0·78	40·4	+15·1	49	+18	York.
b, South.	a Spurn Head	66	25th, 27th	46	29th, 30th	60·6	49·6	54·8	+ 0·4	90	0	3	0·74	+ 0·35	*	*	*	*	*
	a Lincoln	67	25th	42	29th	61·1	47·6	54·0	+ 0·8	84	0	4	0·68	+ 0·25	39·1	—	47	—	Skegness.
	a Fulbeck	66	25, 26, 27th	43	29th	60·8	47·5	53·8	+ 0·5	83	0	4	0·37	− 0·09	36·9	—	45	—	Rauceby.
															40·6	—	*49*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	71	26th	42	30th	64·5	48·0	55·9	+ 1·9	97	0	4	0·78	—	38·0	—	46	—	Cromer.
	p Hillington .. M	69	26th, 27th	40	25th	62·7	44·8	53·3	− 0·3	79	0	4	1·69	+ 1·09	34·8	+ 5·6	42	+ 7	Hillington.
	a Yarmouth	70	26th, 27th	41	29th	63·6	46·4	54·6	+ 0·1	88	0	4	1·20	+ 0·68	43·0	—	52	—	Yarmouth.
	a Norwich	70	26th	41	29th	62·9	47·6	54·9	0·0	90	0	3	1·25	—	*	*	*	*	*
	p Geldeston	72	26th	40	29th	65·5	45·8	55·2	+ 1·2	92	0	4	1·34	+ 0·81	40·1	+ 7·1	48	+ 9	Geldeston.
	p Cambridge	71	26th	39	29th	64·9	45·3	54·6	+ 0·7	88	0	3	0·39	− 0·07	46·4	+14·9	56	+18	Cambridge.
b, South.	a *Felixstowe*	*69*	*27th*	*41*	*25th*	*63·0*	*50·3*	*56·4*	+ *1·1*	*101*	*0*	*3*	*1·00*	—	*46·1*	—	*56*	—	*Felixstowe.*
	a Clacton-on-Sea ..	69	26th, 27th	43	29th, 30th	63·9	47·9	55·5	+ 0·6	95	0	3	0·68	—	45·6	—	55	—	Clacton.
	a Rothamsted ..	69	26th, 27th	39	25th	62·7	46·7	54·3	+ 1·5	86	0	3	0·45	− 0·10	48·6	+17·9	59	+22	Rothamsted.
	a *Shoeburyness* ..	*69*	*27th*	*43*	*29th*	*64·0*	*51·0*	*57·2*	+ *1·2*	*106*	*0*	*3*	*0·34*	− *0·11*	*43·9*	—	*53*	—	*Southend.*
	p Tottenham	71	26th	43	29th	65·1	49·3	56·8	+ 1·9	104	0	3	0·31	—	46·1	—	56	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	62	26th	38	30th	57·6	44·5	50·7	− 0·9	61	0	4	1·38	+ 0·77	42·3	—	51	—	Harrogate.
	a Bawtry	65	25, 26, 27th	39	25th	60·0	45·7	52·5	− 0·3	74	0	4	0·52	+ 0·11	26·8	+ 2·0	32	+ 2	Worksop.
	p *Buxton* .. M	*61*	*24th, 27th*	*32*	*24th*	*55·6*	*41·9*	*48·4*	− *1·3*	*45*	*0*	*4*	*1·82*	+ *0·92*	*30·4*	—	*37*	—	*Buxton.*
	a Nottingham ..	66	26th	39	25th	61·3	44·3	52·4	− 0·7	73	0	5	0·31	− 0·17	36·2	—	44	—	Nottingham.
	p Birmingham, Edgbsn	66	24th	42	29th	60·3	47·0	53·3	+ 0·5	79	0	3	0·69	+ 0·19	30·7	—	37	—	Birmingham.
	a Raunds .. M	71	26th	38	29th	64·1	45·9	54·6	+ 1·5	88	0	2	0·30	—	*	*	*	*	*
	a Oxford	68	27th	40	29th	63·4	48·0	55·3	+ 1·5	93	0	3	0·36	− 0·11	48·0	+17·6	58	+21	Oxford.
b, West.	a Cheadle .. M	62	26th	40	25th, 29th	57·3	42·0	49·3	− 2·3	51	0	5	0·72	+ 0·08	30·8	—	37	—	Sheffield.
	p Shrewsbury	69	24th	41	29th	61·4	46·8	53·8	0·0	83	0	4	0·32	—	*	*	*	*	*
	p Hereford .. M	66	24th	41	29th	60·6	46·7	53·3	− 0·1	79	0	3	0·31	− 0·17	*	*	*	*	*
	a Cirencester	67	28th	38	25th	63·3	44·4	53·4	+ 0·3	80	0	4	0·52	− 0·06	41·6	+12·5	50	+15	Cirencester.
	a Bath	68	27th	36	29th	63·7	44·4	53·6	− 1·3	81	0	2	0·15	− 0·43	44·5	—	54	—	Bath.
															50·4	—	*61*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	68	26th, 27th	40	29th	63·8	47·2	55·1	+ 0·8	92	0	4	0·30	− 0·20	50·3	+21·3	61	+26	Kew.
	a Marlborough ..	67	27th	33	29th	63·1	43·3	52·7	+ 0·7	75	0	4	0·29	− 0·24	44·9	+18·3	54	+22	Marlborough.
	a Margate	69	25, 26, 27th	48	30th	64·9	51·8	58·0	+ 2·0	112	0	4	0·42	− 0·08	47·1	+15·7	57	+19	Margate.
	a Wisley, Surrey ..	70	27th	40	29th	64·4	48·3	56·0	+ 1·4	98	0	3	0·28	—	52·3	—	63	—	Wisley.
	a Swarraton .. M	68	27th	33	29th	62·7	45·1	53·5	+ 0·6	81	0	3	0·28	− 0·32	57·6	—	69	—	Worthing.
	a Tunbridge Wells M	69	26th	38	29th	63·8	47·7	55·4	+ 1·4	94	0	4	0·33	− 0·30	52·8	+19·6	64	+24	Tunbridge Wells.
	a Dungeness	68	26th	39	29th	65·4	46·7	55·6	− 0·6	95	0	4	0·55	− 0·01	49·5	—	60	—	Littlestone.
	p Hastings	68	24th, 26th	42	29th	64·9	49·9	57·0	+ 0·9	105	0	4	0·47	− 0·23	*53·1*	*+18·0*	*64*	*+22*	*Hastings.*
	p Southampton ..	70	26th	42	29th	64·8	49·0	56·5	+ 0·8	102	0	3	0·29	− 0·31	48·6	+15·4	59	+19	Southampton.
	a Ventnor	68	25th	48	29th	64·9	53·4	58·9	+ 1·5	118	0	3	0·54	− 0·08	53·8	+18·1	65	+22	Ventnor.
															56·8	+21·6	68	+26	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*70*	*26th*	*41*	*29th*	*65·4*	*49·6*	*57·1*	+ *2·5*	*106*	*0*	*2*	*0·29*	− *0·19*	*45·9*	*+23·1*	*55*	*+28*	*Westminster.*
	a *Greenwich*	*72*	*26th*	*40*	*29th*	*65·6*	*48·3*	*56·5*	+ *1·2*	*102*	*0*	*2*	*0·28*	− *0·20*	*50·4*	*+18·9*	*61*	*+23*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	59	26th	37	30th	54·1	44·6	49·1	− 2·7	50	0	6	1·79	+ 0·65	*	*	*	*	*
	p Glasgow	60	24th	37	30th	55·9	43·5	49·4	− 1·9	52	0	6	1·17	+ 0·40	36·3	+15·4	44	+19	Glasgow.
	p Rothesay .. S	63	26th	39	30th	57·1	43·4	49·9	− 2·1	55	0	6	1·86	+ 0·66	*	*	*	*	*
	a Kilmarnock	60	24th, 26th	36	30th	56·0	44·4	49·9	− 1·6	55	0	6	1·03	—	*57·4*	—	*45*	—	*Kilmarnock.*
	a Colmonell .. S	65	24th, 25th	38	30th	58·1	43·9	50·7	− 1·5	61	0	5	0·85	− 0·12	*	*	*	*	*
	p Dumfries .. S	63	24th	38	28th	56·6	43·0	49·5	− 2·4	53	0	5	0·99	+ 0·25	*33·7*	—	*41*	—	*Dumfries.*
	p Cally, Gatehouse S	61	26th	37	30th	57·7	41·1	49·0	− 2·1	53	3	5	1·93	+ 0·98	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	60	24th	42	30th	56·7	46·7	51·5	− 0·8	67	0	6	0·82	− 0·12	38·4	+ 8·1	46	+10	Douglas.
															33·2	—	40	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	63	24th	38	30th	57·8	45·0	51·1	− 0·5	64	0	7	1·03	+ 0·14	35·0	—	42	—	Aspatria.
	p Newton Rigg ..	62	24th	37	30th	56·5	42·8	49·3	− 0·9	51	0	6	1·02	+ 0·29	36·6	+11·0	44	+13	Newton Rigg.
	p Stonyhurst	60	24, 25, 26, 27	43	30th	56·8	46·6	51·9	− 0·3	67	0	5	2·28	+ 1·29	28·5	+ 1·8	34	+ 2	Stonyhurst.
	p Blackpool .. M	62	24th, 26th	43	30th	58·6	48·9	53·5	− 0·3	81	0	5	1·41	+ 0·65	33·1	+ 6·1	40	+ 7	Blackpool.
	p M'nch'ster, Prestwich	64	24th, 26th	41	30th	59·6	45·6	52·3	0·0	72	0	4	1·54	+ 0·72	*25·6*	+ *2·7*	*31*	+ *3*	*Prestwich.*
	a Liverpool (Bidston)	63	26th	46	30th	59·0	49·7	54·1	+ 0·6	85	0	4	2·13	+ 1·47	*30·1*	—	*36*	—	*Liverpool.*
	a Hawarden Bridge ..	65	24th, 26th	42	30th	60·1	48·7	54·1	− 0·2	85	0	4	1·32	+ 0·81	*38·3*	*+11·0*	*46*	*+13*	*Southport.*
															33·3	—	*40*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	62	24th, 26th	48	28, 29, 30th	59·2	50·0	54·4	− 0·4	87	0	6	2·34	+ 1·71	34·9	+ 7·7	42	+ 9	Llandudno.
	a Holyhead	62	24th	47	28th, 30th	57·9	49·9	53·7	− 0·7	82	0	6	1·73	+ 1·01	24·9	—	30	—	Aberdovey.
	p Bettws-y-Coed ..	63	24th, 26th	43	28th	59·4	46·6	52·7	− 1·1	75	0	7	3·14	—	28·6	—	35	—	Bettws-y-Coed.
															26·5	—	32	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	62	24th, 25th	37	29th	57·9	45·1	51·2	− 0·3	64	0	6	1·06	—	25·7	—	31	—	Llangammarch Wells.
	a Pembroke	64	25th	50	29th	60·9	54·1	57·3	+ 2·0	107	0	6	0·54	− 0·29	26·7	− 4·3	32	− 5	Pembroke.
	p Cardiff	65	27th	41	29th	61·7	46·8	53·9	+ 0·3	83	0	5	0·43	− 0·45	*41·6*	—	*50*	—	*Cardiff.*
															27·5	− *4·5*	*33*	− *6*	*Tenby.*
	a Clifton	67	27th	43	29th	62·1	50·4	56·0	+ 1·4	98	0	3	0·29	− 0·38	*42·9*	—	*52*	—	*Clifton.*
b, ENGLAND, S.W. ..	a Shaftesbury .. M	63	26th, 27th	41	29th	61·6	47·3	54·1	+ 0·3	85	0	3	0·30	− 0·37	*	*	*	*	*
	a Arlington	64	24th	45	25th, 29th	60·0	48·1	53·8	+ 0·8	83	0	3	0·96	− 0·21	38·7	+ 6·3	47	+ 8	Newquay.
	a Cullompton .. M	69	27th	37	29th	63·8	45·9	54·4	+ 0·4	87	0	4	0·46	− 0·19	33·6	+ 5·0	41	+ 6	Cullompton.
	a Portland Bill ..	65	25th	52	29th	62·4	56·0	59·1	+ 2·6	120	0	4	0·25	—	*51·2*	—	*62*	—	*Weymouth.*
	p Plymouth	67	27th	46	25th	62·9	50·5	56·4	+ 0·9	101	0	5	0·35	− 0·34	38·3	+ 6·2	46	+ 7	Plymouth.
	p Falmouth	64	27th	50	29th	61·3	52·2	56·5	+ 1·1	102	0	5	0·56	− 0·30	40·3	+ 7·6	49	+ 9	Falmouth.
															45·4	—	*55*	—	*Salcombe.*
															38·4	+ *4·6*	*46*	+ *6*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	61	26th	42	30th	56·0	46·9	51·2	− 1·4	64	0	5	0·54	− 0·16	*	*	*	*	*
	a Blacksod Point ..	60	26th	46	28th	56·6	49·1	52·7	− 0·2	75	0	4	1·13	+ 0·10	*	*	*	*	*
	p Markree Castle ..	63	24th, 26th	40	26th, 28th	58·3	41·7	49·6	− 1·7	54	1	6	0·71	− 0·16	30·9	+ 7·1	37	+ 9	Markree Castle.
	a Birr Castle	62	26th	39	29th	58·1	42·9	50·1	− 1·9	57	0	5	0·68	+ 0·12	*32·7*	+ *5·1*	*39*	+ *6*	*Birr Castle.*
b, East.	p Armagh	62	24th, 26th	41	28th, 29th	57·5	43·9	50·4	− 1·2	59	0	6	0·80	+ 0·19	31·0	+ 6·0	37	+ 7	Armagh.
	a Donaghadee	63	24th	41	28th, 29th	56·6	44·1	50·1	− 2·7	57	0	5	0·54	− 0·08	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	64	24th	42	29th	58·5	47·5	52·7	− 1·3	75	0	4	0·56	+ 0·05	29·3	− 1·3	35	− 2	Phœnix Park.
	a Kilkenny	63	24th	32	29th	58·1	42·6	50·0	− 2·3	56	0	5	1·42	+ 0·84	*	*	*	*	*
	a Waterford	63	24th, 26th	38	29th	59·4	45·9	52·3	− 1·1	72	0	4	2·62	+ 1·88	*	*	*	*	*
	a Birr Castle	62	26th	39	29th	58·1	42·9	50·1	− 1·9	57	0	5	0·68	+ 0·12	32·7	+ 5·1	39	+ 6	Birr Castle.
	a Foynes	63	26th	47	29th	58·6	49·2	53·7	+ 0·2	82	0	5	0·38	− 0·35	*	*	*	*	*
b, West.	a Cahir .. .. M	64	24th	38	29th	58·3	44·8	51·2	− 2·1	64	0	5	1·84	—	*	*	*	*	*
	a Killarney	65	26th	45	29th	61·2	49·3	55·0	+ 1·5	91	0	6	1·48	+ 0·52	*	*	*	*	*
	a Valencia	63	26th	50	25, 28, 29th	59·6	51·3	55·3	+ 0·7	93	0	6	1·61	+ 0·57	26·2	− 2·1	32	− 3	Valencia.
	a Roche's Point ..	62	24th	45	29th	59·7	50·1	54·7	+ 0·2	89	0	4	3·29	+ 2·54	27·3	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	64	24th, 27th	51	29th	61·7	53·6	57·5	+ 0·4	109	0	3	0·50	− 0·16	26·0	− 9·2	31	−11	Scilly.
	a Jersey, St. Aubins ..	70	25th	47	25th	65·0	52·0	58·2	− 0·3	113	0	6	0·27	− 0·47	42·1	+ 4·1	51	+ 5	St. Heliers.
	a Guernsey	68	25th	50	29th	64·1	54·2	58·9	+ 1·1	118	0	4	0·33	− 0·47	47·4	+11·4	57	+14	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	49·4	—
0. — —				
0. — —				
1. Aberdeen	—	—	—	53·0
1. Crathes	3	23	51·2	53·9
1. Balmoral	3	24	—	—
1. West Linton	—	—	—	—
1. Marchmont	0	31	50·1	—
2. Cockle Park	0	36	49·9	52·3
2. Durham	0	35	—	—
2. York	—	—	54·7	56·8
2. Hull	0	35	53·3	56·1
2. Lincoln	—	—	54·7	57·0
2. Rauceby	0	36	57·1	58·7
3. Norwich	0	34	—	—
3. Yarmouth	—	—	57·6	60·9
3. Lowestoft	0	37	56·8	59·1
3. Cambridge	1	28	57·4	59·7
3. Clacton-on-Sea	0	37	57·5	59·0
3. Southend	0	33	61·1	—
3. Tottenham	0	39	—	62·3
4. Harrogate	0	36	53·0	54·6
4. Huddersfield	0	39	54·4	56·4
4. Buxton	0	35	53·7	55·5
4. Sheffield	0	36	54·4	55·9
4. Nottingham	0	36	54·6	57·9
4. Birmingham	0	36	53·0	55·0
4. Oxford	0	—	—	—
4. Hereford	2	27	—	—
4. Cirencester	0	37	55·6	57·4
4. Bath	—	—	58·0	59·7
5. Margate	0	44	57·2	59·3
5. Greenwich	0	32	—	—
5. Westminster	0	37	—	—
5. Kew	1	27	57·0	58·0
5. Canterbury	0	34	58·0	61·1
5. Tunbridge Wells	0	31	57·5	—
5. Wisley	1	29	57·4	59·6
5. Worthing	0	37	59·3	60·6
5. Portsmouth	0	40	59·1	61·1
6. Glasgow	1	30	—	—
6. Rothesay	—	—	—	53·8
6. Colmonell	0	36	—	—
6. Dumfries	0	34	53·1	56·9
6. Douglas	0	40	—	—
7. Aspatria	0	34	52·9	54·5
7. Newton Rigg	0	31	53·5	54·6
7. Burnley	0	34	52·9	55·0
7. Southport	0	42	54·8	57·8
7. Manchester City	0	39	55·5	59·5
7. Bettws-y-Coed	0	42	52·7	54·0
8. Llangammarch Wells	3	21	54·3	55·5
8. Cardiff	0	32	56·5	58·5
8. Clifton	0	38	—	—
8. Plymouth	0	36	58·7	—
9. Armagh	0	32	54·2	56·1
9. Markree	0	31	55·0	56·3
10. Dublin, Trin. Coll.	0	34	55·0	56·9
11. Guernsey, Brooklyn	0	44	61·0	62·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	53	52	52·7
	Kirkwall	51	47	50·1
	Wick	52	50	50·4
SCOTLAND E.	Cromarty	55	50	53·0
	Pennan Bay	55	51	53·3
	Aberdeen, Cove Bay	54	53	54·0
ENGLAND, N.E.	Burnmouth, Berwick	51	50	50·7
	Scarborough	60	48	54·9
ENGLAND, E.	Shipwash Lightship	65	59	62·3
	Margate‡	62	59	60·6
ENGLAND, S.E.	Eastbourne‡	62	60	61·4
SCOTLAND, W.	Lamlash	56	54	54·8
	Ballantrae	58	45	51·4
ENGLAND, N.W.	Port Erin	57	56	56·4
ENGLAND, S.W.	Newquay	60	59	59·9
	Scilly	60	58	58·4
	Plymouth‡	59	59	59·0
	Salcombe	62	59	60·3
IRELAND, N.W.	Sheephaven	57	55	55·9
	Teelin	60	56	57·5
IRELAND, S.W.	Cleggan	56	52	54·1
	Seafield	60	51	57·0
IRELAND, E.		—	—	—

‡ Only one observation each day.

REGISTERING BALLOON ASCENT.

PYRTON HILL, August 3rd, 1911. 6.55 a.m.

Height Km.	Pressure. Mgd. per sq. c².	Temperature. A°.	Height. Km.	Pressure. Mgd. per sq. c².	Temperature. A°.	Height. Km.	Pressure. Mgd. per sq. c².	Temperature. A°.	Height Km.	Pressure. Mgd. per sq. c².	Temperature A.°
Ground	·999	290°	3·5	·668	**270**	9·0	·319	**233**	16·0	·111	**220**
0·5	·960	288	4·0	·628	**266**	10·0	·276	**226·5**	17·0	·094	**220**
1·0	·904	285	4·5	·590	**264**	11·0	·238	**221**	18·0	·081	**220·5**
1·5	·852	282	5·0	·552	**261**	12·0	·211	**217·5**	19·0	·070	**220·5**
2·0	·803	279	6·0	·484	**254·5**	13·0	·176	**220**	20·0	·060	**221**
2·5	·755	276	7·0	·422	**246·5**	14·0	·151	**220**	At Min.		
3·0	·711	**273**	8·0	·368	**329**	15·0	·128	**220**	Pressure.	·060	**221**

Max. Height	20·5 km.
Min. temp.	**217·5** at 12 km.
Place of fall.	Soham, Cambridge.
Distance	116 km.
Direction.	45°.
Gradient, Ground to 11 km.	0·63 °C per 100 m.

NOTES.—Some low clouds. Wind S.S.W. moderate. Up and down traces almost identical throughout. Stratosphere reached at 11.3 k.m., Temperature **217**.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138-142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

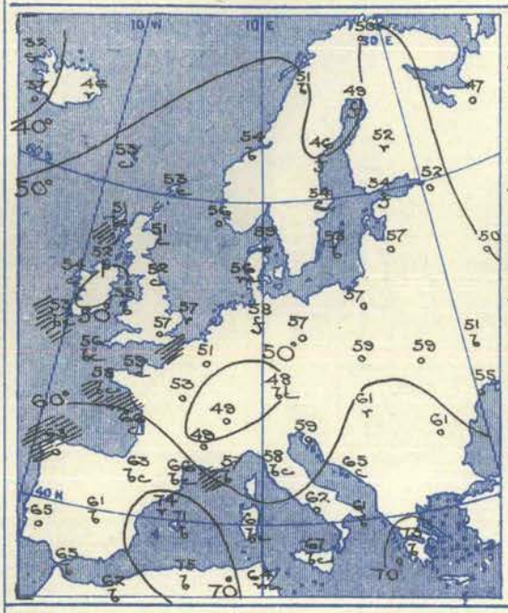
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 24th September, 1911.

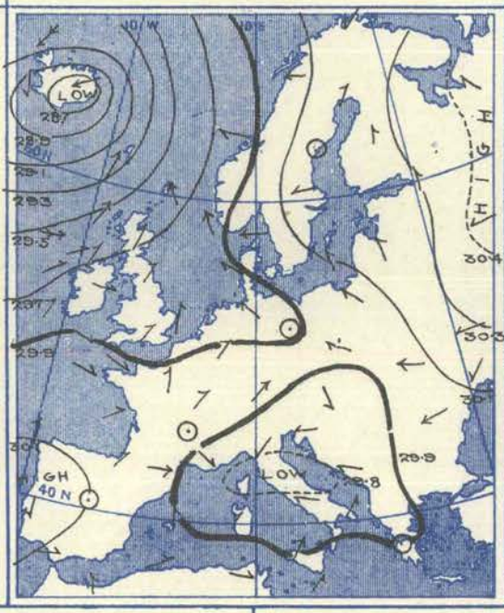
Temperature and Weather.

7 a.m.

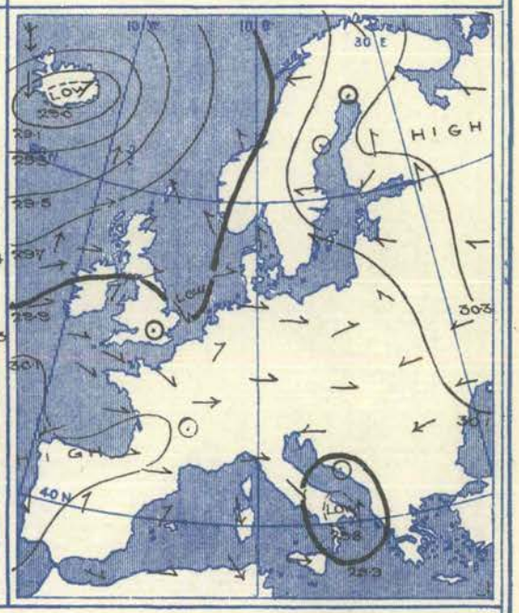


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the British Islands as a whole, but showery at Malin Head and rainy on the east coast of England. Rainy also on the north-east coast of France and at various isolated stations on the Continent, generally dull and misty or foggy over northern and central Europe, fair or fine over the Mediterranean region. Rain during day over our western districts and in many parts of the Continent, as much as 1·5 in. at Skudesnaes and 0·7 in. at Buda Pesth. Thunder and lightning observed in the north-east of Ireland.

Temperature fallen over Scotland and Ireland, risen over England and the western parts of the Continent, changed irregularly over the rest of our area. Morning readings below 40° in western Iceland and below 50° over central Ireland and central France and western Germany, as well as in north-eastern Russia, but above 70° over the western part of the Mediterranean. Maxima during day below 60° at some of our own north-western stations and below 70° over the whole of our Islands and the adjacent parts of the Continent, but above 80° at some places in southern Europe and as high as 88° in some parts of Algeria.

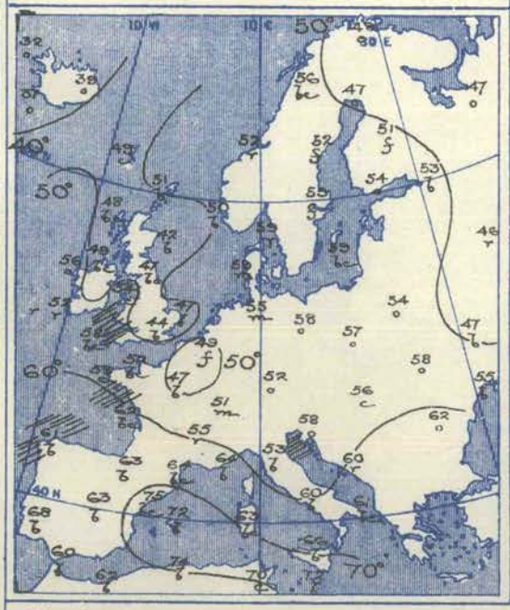
Wind in morning South-Westerly, light or moderate, in Scotland and Ireland, variable from West or North-West in England generally, but South-Easterly or Southerly over the south-east of England and the North Sea region and fresh or strong in force in places. Mostly from some Easterly point over eastern and south-eastern Europe and from the South-Westward over France, light and variable in the south. Moderate to a gale from North or North-East in Iceland. Veering to North-West over eastern England during day, little other change.

Barometer in morning highest 30·4 in. and upwards over north-eastern Russia and above 30·1 in. between the Azores and Portugal, lowest 28·7 in. and less in a deep depression centred over Iceland, and below 29·8 in. in a shallow system over Italy. Latter disturbance moving South-Eastward during day, that over Iceland not changing its position, but becoming less deep.

Monday, 25th September, 1911.

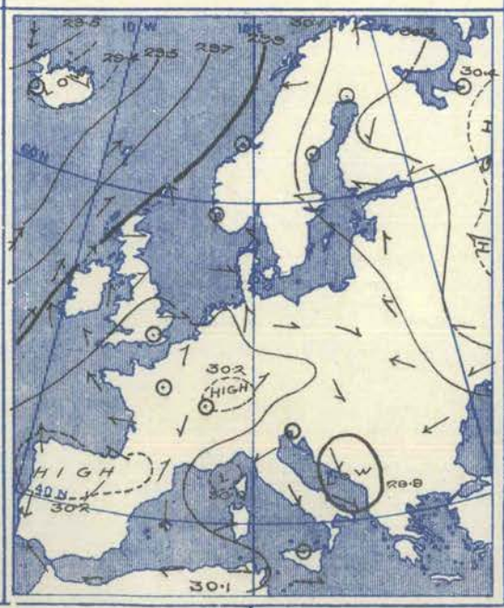
Temperature and Weather.

7 a.m.

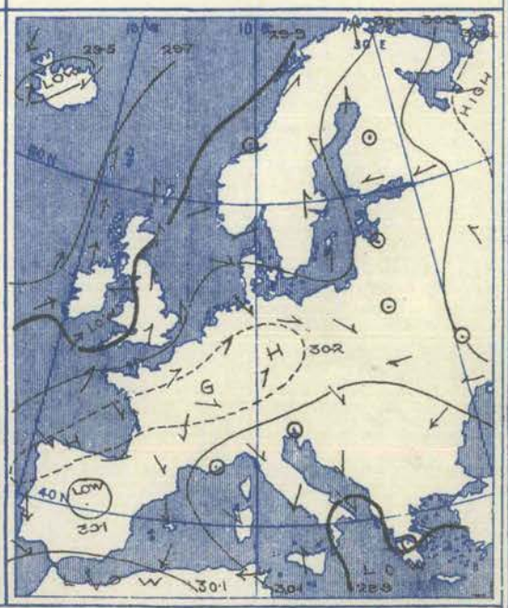


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning dull and rainy on our extreme south-western coasts, but fair or fine over the British Islands as a whole, but with a good deal of mist. Fine also in the north of France and over the Mediterranean region and southern Russia, but cloudy or dull on the Continent generally, with fog in the north of Russia, rain at several of the Norwegian and Danish stations, and locally at Moscow, Lesina and Lyons. Rain falling during day in nearly all parts of our Islands and Scandinavia and in several other parts of the Continent, 0·7 in. to 0·8 in. at some of our western stations and as much as 3 in. at Roches Point.

Temperature fallen decidedly over Scotland and England, changed rather irregularly on the Continent, but fallen as a whole. Morning readings below 40° in Iceland and below 50° over north-eastern Europe and a large part of the United Kingdom, but above 60° over southern Europe generally and above 70° on the southern shores of the Mediterranean. Rising to nearly 70° at some stations in southern England during day to above 70° in southern Europe generally, to 84° at Athens and to 93° at Laghouat (Algeria).

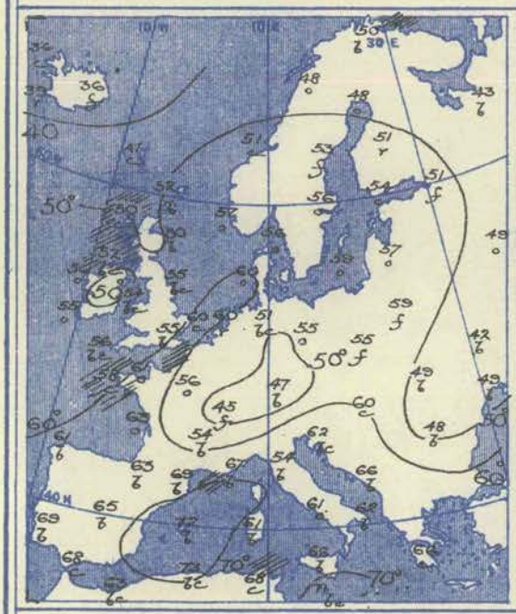
Wind in morning light or moderate from South or South-West over the western parts of the United Kingdom, but light from West or North-West on the east coast of England, light and variable on the Continent as a whole, but chiefly from the Eastward over northern and eastern Europe. Backing to East in North Wales and Lancashire during day and to South or South-East over eastern Britain; veering and changing fitfully in the south-west, increasing to a strong or high wind in places; not much change on the Continent.

Barometer in morning highest 30·4 in. and upwards over eastern Russia and 30·1 in. to 30·2 in. over south-western and central Europe, including the Channel and the south of England. Lowest 29·8 in. and less off our north-west coasts and about 29·3 in. some distance to the southward of Iceland; 29·9 in. and less in a shallow system over the Adriatic. Rather deep secondary disturbance appearing over St. George's Channel at 6 p.m., very little change in the distribution of pressure on the Continent.

Tuesday, 26th September, 1911.

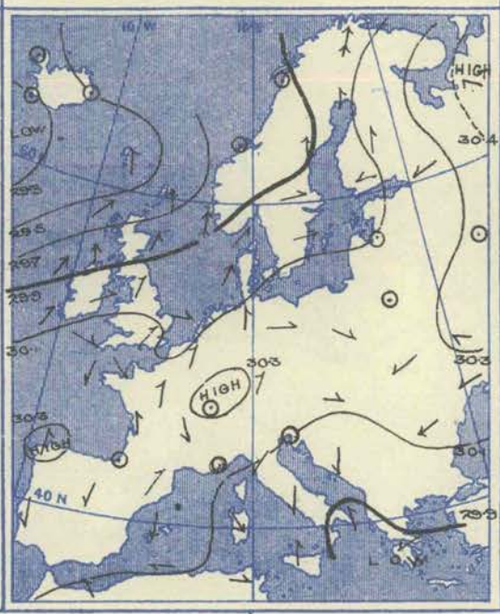
Temperature and Weather.

7 a.m.

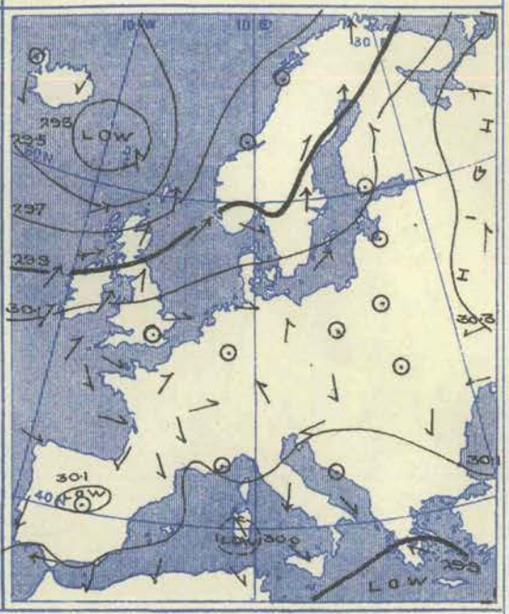


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the British Islands generally, cloudy to dull in the west with drizzle at Pembroke and showers at Spurn Head; fine over southern and eastern Europe but dull on the Continent as a whole, with a great deal of fog in the central and northern countries, and rain at Kuopio, Helder and Cape Gris Nez. Rain during day at most of our own western and northern stations, at many places in northern Europe and in scattered localities elsewhere.

Temperature risen in Great Britain and the north of France, changed irregularly elsewhere. Morning readings below 40° in Iceland and below 50° over the central parts of Ireland and in eastern France and western Germany; above 70° over the western Mediterranean. Maxima below 60° at some of our north-western stations, but touching 70° at some places in south-eastern England, exceeding that point in the southern Continental countries, and 80° at some places on the Mediterranean.

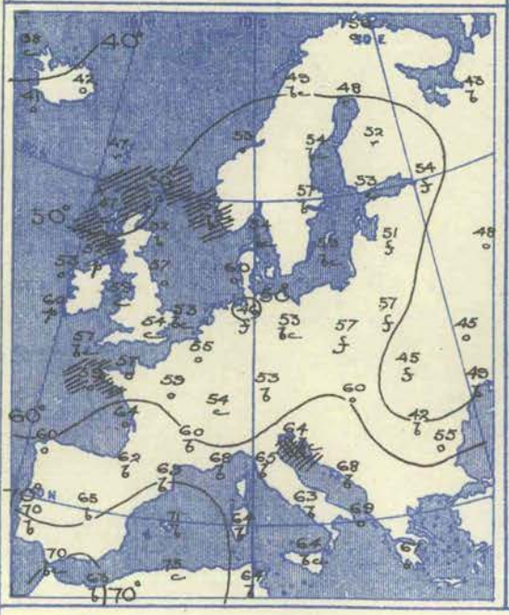
Wind in morning Southerly to Westerly over north-western Europe, light or moderate in force as a rule, but strong on exposed parts of our coasts and in Scandinavia; light and variable over the Continent generally, but chiefly from east over Russia and south-eastern Europe; calm in Iceland. Increasing to a high wind or gale during day at some of our western stations, very little change elsewhere.

Barometer in morning highest 30·4 in. over eastern Russia, and 30·2 in. to 30·3 in. in a long anticyclonic band stretching from beyond the coast of Spain across France and Germany to Poland. Lowest 29·3 in. in a depression to the southward of Iceland and 29·9 in. and less in a shallow disturbance over the eastern Mediterranean. Main disturbance moving Westward to the Faeröe during day and barometer rising briskly on the Atlantic; shallow depressions forming over the south of our area.

Wednesday, 27th September, 1911.

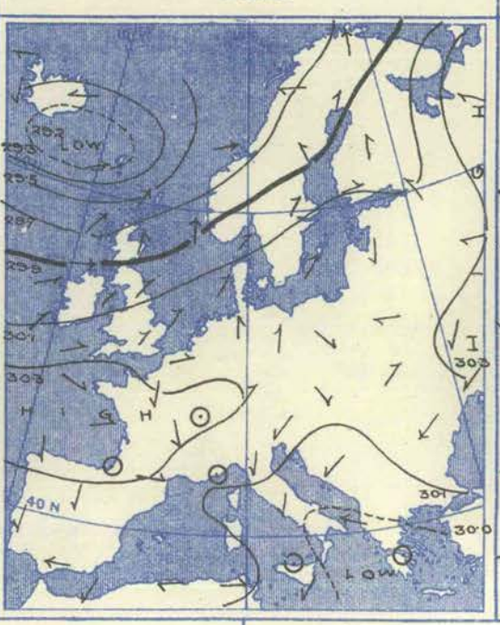
Temperature and Weather.

7 a.m.

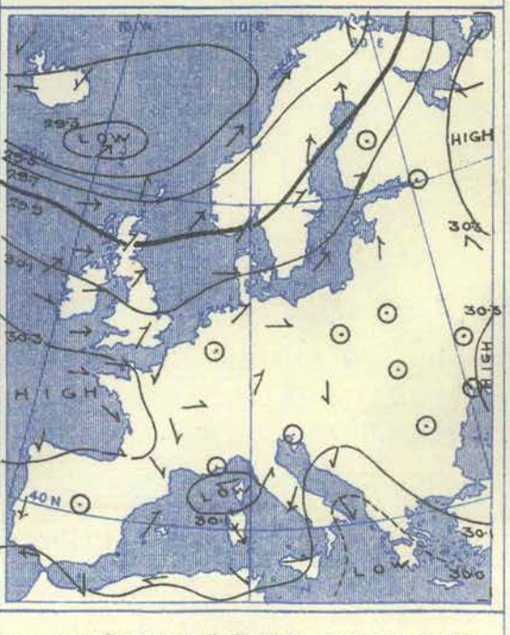


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning dull and rainy at many of our western stations, but fair or fine over the United Kingdom as a whole; very variable on the Continent, but mostly fine and bright over the southern countries, a good deal of fog over Germany and Russia, and rain locally at Haparanda, Christiansund, Kuopio and Le Mans. Heavy rain during day over North Wales and the neighbouring English counties, as much as 1 inch at Liverpool, and smaller amounts in nearly all other parts of the British Islands and north-western Europe generally.

Temperature fallen in the north of Scotland and south-east of England, risen over our south-western districts, changed irregularly on the Continent. Morning readings below 40° in the north of Iceland and below 50° over the north of Scotland and in eastern Europe; above 70° over the western part of the Mediterranean. Rising to about 70° during day at a few of our own southern and eastern stations and to between 75° and 85° over southern Europe.

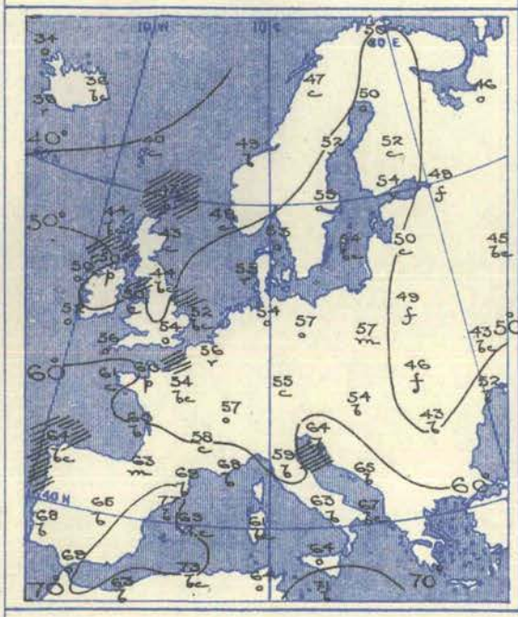
Wind in morning South-Westerly over the British Islands, the North Sea and Scandinavia, light to strong in force generally, a gale at Skudesnaes; light variable over France and Germany and mainly Easterly, light or moderate, over eastern and southern Europe. Veering to West or North-West in many parts of our Islands later and becoming stronger generally; very little change on the Continent.

Barometer in morning highest 30·3 in. and upwards over eastern Russia, and also in a long band stretching from near the Azores to Central Germany; lowest 29·2 in., and less in a depression centred between Iceland and Faeröe, and below 30·0 in. in a shallow system to the south-eastward of Italy. Very little change in the general distribution of pressure during day, but barometer rising on our western coasts.

Thursday, 28th September, 1911.

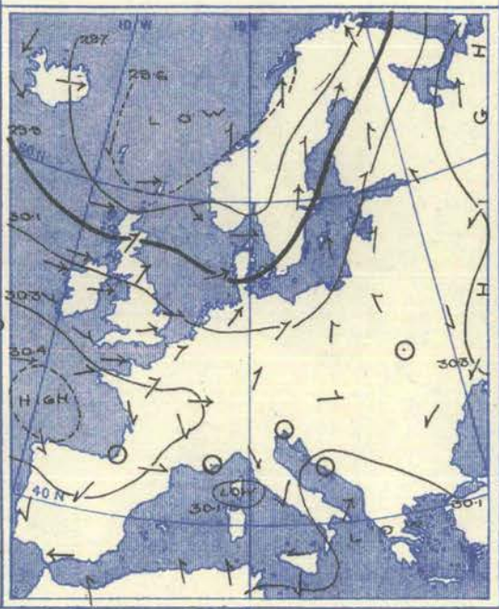
Temperature and Weather.

7 a.m.

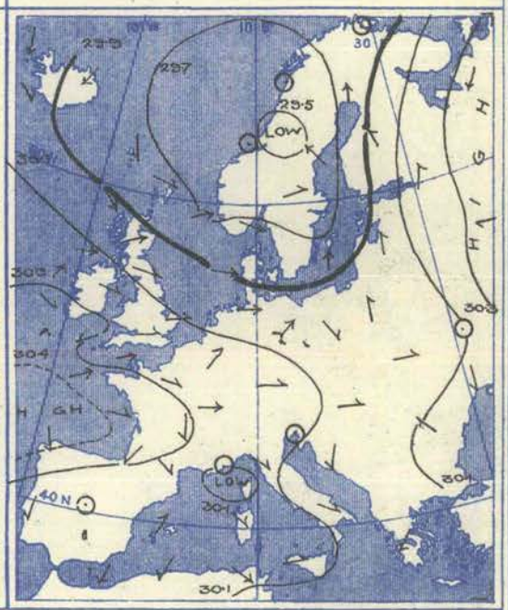


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to cloudy or dull over the United Kingdom, with showers in a few places; dull and rainy in most parts of Sweden, Denmark and the Low Countries; a good deal of fog prevalent over Russia and Germany, but generally fair or fine over the southern and south-eastern countries. Rain during day over our western and northern districts, the largest amount being 0·8 in. at Wick; rain in most parts of north-western and central Europe, 0·9 in. at Munich and 1·1 in. at Cuxhaven.

Temperature fallen generally over our Islands as well as in most Continental countries. Morning readings below 40° in Iceland, below 50° over the northern and central parts of the United Kingdom and the greater part of Russia, and below 60° except over the extreme southern and south-western countries of Europe; above 70° over the western part of the Mediterranean. Maxima over the United Kingdom below 60° except in the extreme south but above 70° over the southern part of our area generally and above 80° in Algeria.

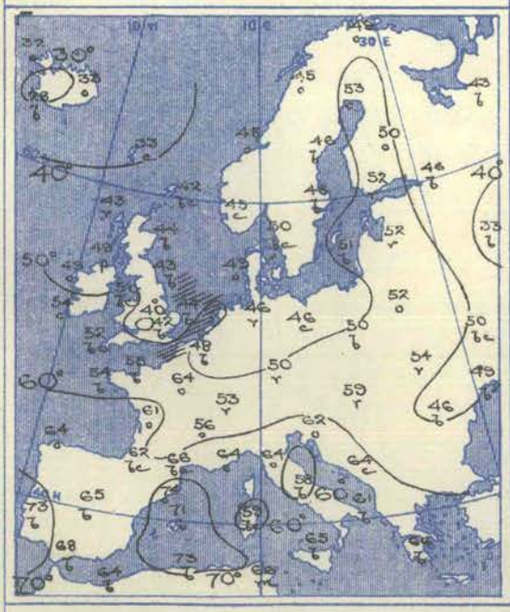
Wind in morning cyclonic over northern and north-western Europe generally, South-Easterly or Southerly over Northern Russia, the Baltic Provinces and Scandinavia, between South-West and West over the British Islands and the north of France, and North-Westerly or Northerly in the Icelandic region; light to fresh or strong in force generally. Variable and light in force over Russia, Austria and the Mediterranean countries. Veering more to the North-Westward on our western coasts during day, little other change.

Barometer in morning highest 30·3 in. and upwards over eastern Russia and also in an anticyclone extending from the Azores and embracing the Bay of Biscay and the greater part of France; lowest 29·6 in. and less in a depression to the northward of Shetland, and below 30·1 in. in shallow systems over south-eastern Europe. Disturbance in north moving Eastwards to Scandinavia during day and barometer rising over Iceland and the British Islands.

Friday, 29th September, 1911.

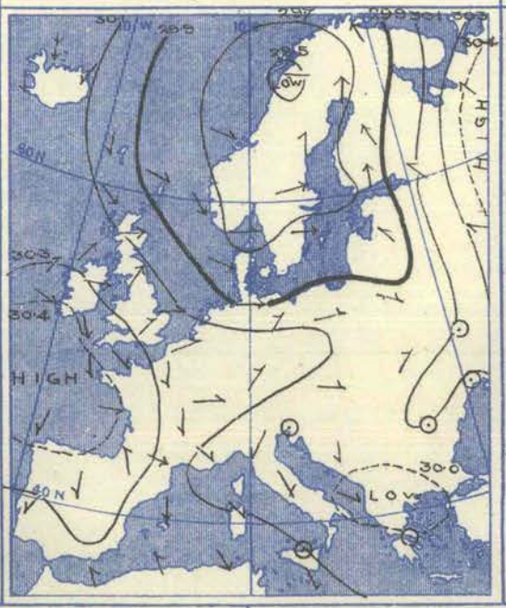
Temperature and Weather.

7 a.m.

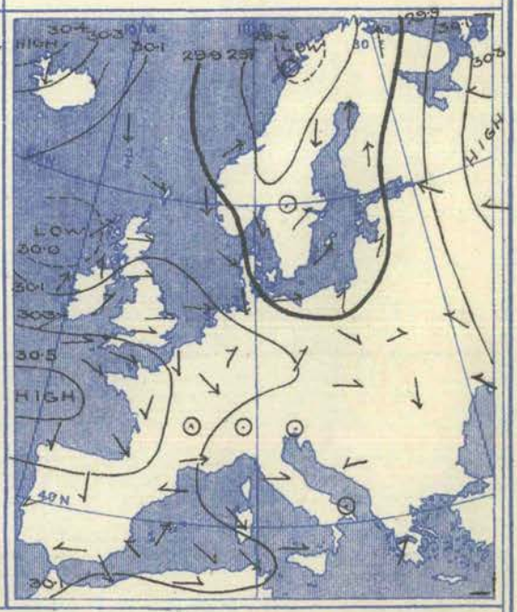


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning showery at a few of our north-western stations, but fair over the British Islands as a whole; fine over the eastern and southern parts of the Continent, but cloudy and unsettled over the greater part of Europe, with rain in many parts of France, Germany and Austria, as well as at some northern stations. Rain during day over all except the southern countries of Europe, about 0·6 in. on our own north-east coasts and at Cuxhaven and 1·1 in. at Christiansund.

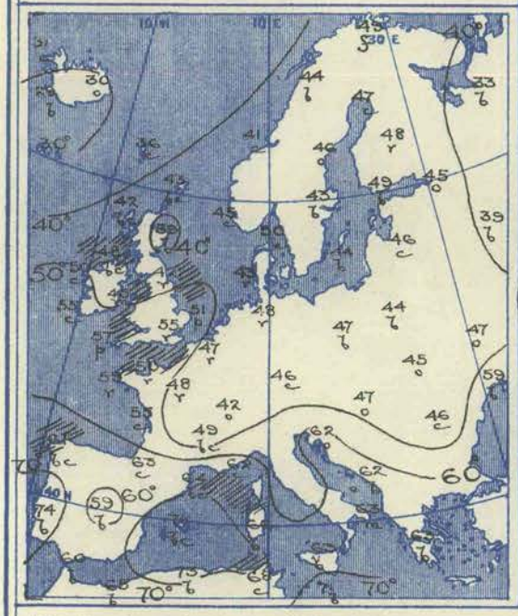
Temperature fallen generally except in Austria and Italy. Morning readings ranging from about 30° in Iceland, about 40° in Somersetshire and below 50° over a large part of our Islands and the Continent to above 60° in the southern countries and to above 70° over the western part of the Mediterranean. Not reaching 60° during day over the British Islands except in the extreme south, and maxima also low over Germany; exceeding 70° over southern Europe generally, and 80° in places.

Wind in morning South-Easterly to Southerly over northern Europe and Westerly to North-Westerly over north-western Europe generally, but backing to South-West in the north of Ireland; blowing a gale locally on the Gulf of Bothnia, and a high wind at the Helder, but moderate or fresh in force as a whole. Variable and mostly light in force over Russia and the Mediterranean. Backing to South during day on our north-west coasts, but very little change elsewhere.

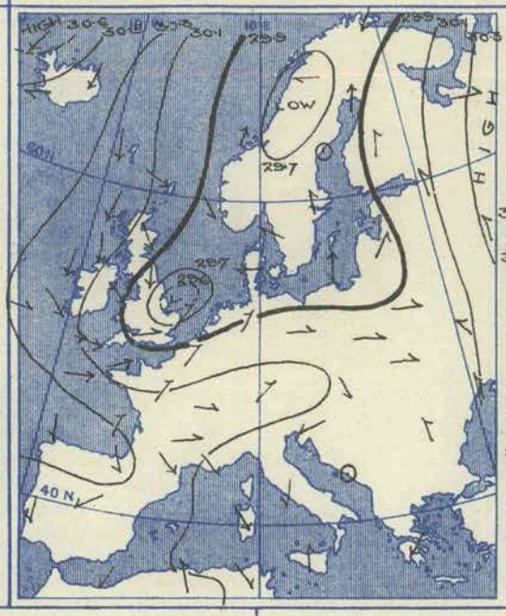
Barometer in morning highest 30·4 in. and upwards in two systems, one between our south-west coasts and the Azores and the other over Russia. Large disturbance, with the mercury below 29·5 in. at its centre, covering Scandinavia, having V-shaped secondaries to the southward of it. Not much change in general distribution of pressure during day, but a depression from the Atlantic extending quickly towards our north-western coasts.

Saturday, 30th September, 1911.

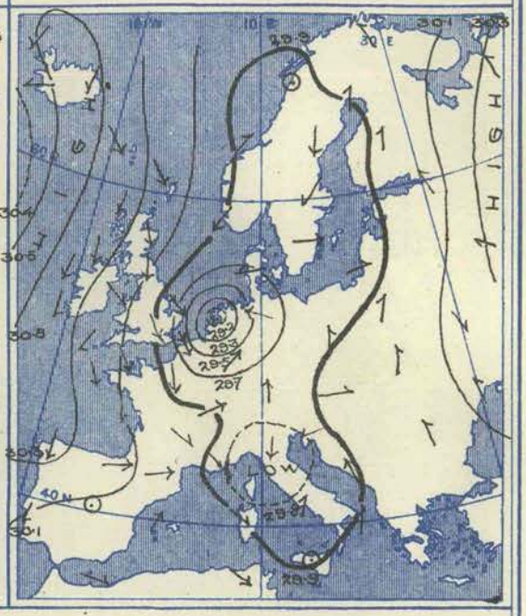
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled and rough over these Islands and their immediate neighbourhood, with rain in several places. Cloudy or overcast over the greater part of the Continent, with rain at Cracow, Kieff and Kuopio. Fair to very fine over southern Europe and the Mediterranean. Rain, mostly slight or moderate in amount, falling later in Great Britain, and heavy quantities over a large area on the Continent; more than an inch in the Low Countries generally and 1·65 in. at Brussels; 1·2 in. at Hamburg.

Temperature risen in England, fallen in most other regions. Readings in morning ranging from above 70° at some stations in the south of our area to about 55° in central England, 45° in central Europe, 39° at Aberdeen and also at Kharkoff, and to 33° at Archangel. Maxima during day about 60° in the south and south-east of England, about 55° in the central regions of Europe, about 75° at various places in the far south, 86° at San Fernando, and 88° at Lisbon.

Wind in morning showing a cyclonic circulation over this country and its vicinity; Northerly to Westerly current strong or high over England and Ireland, and blowing a gale at Scilly Two distinct cyclonic movements existing in other parts of our area, but of little force. Increasing to a fresh to whole gale later in the east and south-east of England and on the coasts of Holland and Belgium, but decreasing in the west and south-west of these Islands. Becoming fresh or strong in the south of France and the north of Italy.

Barometer in morning below 29·6 in. in a well-marked depression centred near Spurn Head, relatively low in other disturbances over Scandinavia and Italy and south-eastern Europe; above 30·3 in. in the north-east of Russia and also in the north of Spain; still higher on the Atlantic. Main depression moving to Holland later and becoming much deeper; gradient growing unusually steep over the southern portion of the North Sea. Pressure increasing quickly in the rear or the baric minimum over this country. Italian depression increasing in intensity.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	Sept. 25th, 10.16 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	 180°, 5		 205°, 8	 205°, 6	 220°, 7	 215°, 7		 240°, 12 — 2,300	Two theodolites to 2,100 m. Few small cu. forming. Alto-cu 1hr. earlier, moving from W.
2	Sept. 27th, 11.45 a.m. to 12.30 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature .. Humidity .. Wind	293° 60% 225°, 8	?° 60% 225°, 10	?° 80% 250°, 10					?° 90% 250°, 9 — 800	Wind falling off above, so that a greater height could not be attained.
3	Sept. 29th, 9.45 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285° 80% 290°, 8	283·5° 80% 290°, 12	280° 90% 300°, 15	278° 90% 310°, 18				277° 90% 320°, 19 — 1,200	A few light clouds. Wind steady to 600 m, very gusty above, a most unusual circumstance.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	—	1	1
Area of Surface (sq. metres) ..	—	7	5
Capacity of Balloon (cub. metres) ..	050	—	—
Length of Wire (metres)	—	900	1,400

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 40. FORTIETH WEEK, SUNDAY, OCTOBER 1ST, TO SATURDAY, OCTOBER 7TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather. Fair dry conditions were experienced at times in all districts, but they were less frequent in the east and south of Great Britain than in the west and north-west, and in Ireland. Thunderstorms occurred in some parts of East Anglia, and also at Portland Bill and Dublin, on the 5th.

Temperature was everywhere below the average, the deficit being as much as 5° in England S.E. The highest of the maxima were recorded at most stations on the 6th or 7th, and ranged from 62° in Scotland W., and 61° or 60° in many other districts to 57° in Scotland N. The lowest of the minima were also registered on the 7th in Scotland E., but much earlier in the week in the other districts. The values ranged from 23° in Scotland E., 27° in Scotland W., and 29° in England S.E, to 33° in England E., 36° in Scotland N. and to 45° in the English Channel. The lowest grass readings were 17° at Llangammarch Wells, 19° at Hampstead, 20° at Balmoral, 21° at Hereford, and 22° at Wisley and Crathes.

Mean Temperature of the Sea. On nearly all parts of the coast the water was colder than during the preceding week, and colder than during the corresponding week of last year. The means for the period ranged from 59° at Newquay, and 58° on the south coast of Devon, to 49° at Burnmouth, and to 47° at Kirkwall.

Rainfall was below the average except in England S.E. and the English Channel, the deficiency being large generally, but very slight in England E. and N.E. Falls of an inch occurred at Tunbridge Wells and Canterbury on the 4th, and at the latter station there was a fall of 1·11 in. on the 7th. Daily amounts exceeding 0·5 in. were rather common on the east and south-east coasts.

Bright Sunshine did not differ much from the average as a whole, but was largely in excess in Scotland W. and England N.W. The percentage of the possible duration ranged from 38 in England N.W., and 36 in Scotland W. and England S.W. and S.E., to 21 in Ireland N., and to 20 in Scotland N.

Barometer and Wind. During the earlier half of the week pressure was high on the Atlantic, to the west of these Islands, and also over Russia, while it was at first lowest in a depression retreating over the Baltic, and subsequently in a band containing more than one minimum extending from Sweden to the Bay of Biscay and the Spanish Peninsula. The general direction of the wind over the United Kingdom was consequently Northerly or North Easterly, and it occasionally blew a fresh to strong breeze in exposed places. At the beginning of the week, a strong or whole gale from North-West was experienced on the east and south-east coasts of England, and on Tuesday evening there was a gale from N.N.E. at Wick. Late in the period the barometer rose decidedly in Scandinavia, and a high pressure band extended from that region to the Atlantic. The winds in these islands became more Easterly for a time, but in the rear of a depression that travelled from France to the North Sea on Saturday, they again shifted to the Northward.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 316.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very light	Light	Moderate	Moderate	Moderate	Moderate	Very light	Light	Light	Very light	Light	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 5 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 2	1 * 1	1 * 1	2 * 1	1 * 2	2 * 2	1 * 2	1 * 2	2 * 2	1 * 2	1 * 2	2 * 1
	Rainfall ...	2 * 2	0 * 2	2 * 1	1 * 1	0 * 1	0 * 1	0 * 3	2 * 2	1 * 3	0 * 3	1 * 2	3 * 1
	Sunshine ...	2 * 1	2 * 0	3 * 0	4 * 0	3 * 0	4 * 0	2 * 1	3 * 1	2 * 1	2 * 1	1 * 1	1 * 2

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10934 4.00 Wy. & S., Ltd. 10—11.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	FORTIETH WEEK—October 1st to October 7th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	57	36	51·6	41·1	46·2	- 1·9	33	- 14	3	0	4	- 1	0·27	-1·10	16	- 3	20	- 4
Eastern																		
1. SCOTLAND, EAST	60	23	52·6	39·6	45·9	- 2·6	37	- 14	7	+ 3	4	- 1	0·36	-0·40	20	- 2	26	- 3
2. ENGLAND, N.E.	61	32	54·2	43·0	48·4	- 2·0	45	- 16	0	- 2	5	+ 1	0·50	-0·03	25	- 1	31	- 1
3. ENGLAND, EAST	60	33	56·0	43·3	49·5	- 2·0	53	- 16	0	- 2	4	0	0·55	-0·03	26	- 1	33	- 2
4. MIDLAND COUNTIES	60	30	54·5	41·2	47·6	- 2·7	43	- 19	2	- 1	4	0	0·31	-0·31	25	+ 1	31	+ 1
5. ENGLAND, S.E.	60	29	54·7	41·7	48·0	- 4·9	43	- 35	1	0	4	0	0·84	+0·14	29	+ 1	36	+ 2
Western																		
6. SCOTLAND, WEST	62	27	54·0	40·3	47·0	- 2·9	42	- 15	5	+ 3	2	- 3	0·14	-1·06	29	+ 7	36	+ 9
7. ENGLAND, N.W.	61	31	54·5	42·7	48·5	- 2·6	46	- 19	0	- 1	3	- 1	0·26	-0·67	30	+ 8	38	+10
8. ENGLAND, S.W.	61	31	55·1	43·5	49·2	- 3·2	50	- 24	0	0	4	- 1	0·32	-0·68	29	+ 3	36	+ 3
9 IRELAND, NORTH	59	32	54·3	42·9	48·4	- 1·9	45	- 14	0	- 1	3	- 2	0·16	-0·76	17	- 4	21	- 6
10. IRELAND, SOUTH	60	32	55·5	43·2	49·2	- 2·4	50	- 18	0	- 1	3	- 1	0·17	-0·61	25	- 2	31	- 2
11. ENGLISH CHANNEL	59	45	56·2	48·7	52·3	- 3·4	72	- 24	0	0	6	+ 2	1·33	+0·48	23	- 9	29	-11
	THE SEASON (Autumn).—Aggregates, &c., for the Period of 5 Weeks, September 3rd to October 7th, 1911.																	
0. SCOTLAND, NORTH	68	32	*	*	*	*	298	- 23	3	- 3	23	- 1	4·10	-1·49	116	+ 3	27	+ 1
Eastern																		
1. SCOTLAND, EAST	77	23	*	*	*	*	323	- 22	12	+ 4	15	- 5	1·49	-1·44	156	+ 23	36	+ 5
2. ENGLAND, N.E.	89	32	*	*	*	*	415	+ 8	0	- 2	16	- 1	2·53	+0·19	197	+ 47	46	+11
3. ENGLAND, EAST	93	33	*	*	*	*	515	+ 54	0	- 3	14	- 2	2·31	-0·09	218	+ 51	51	+12
4. MIDLAND COUNTIES.. ..	94	30	*	*	*	*	440	+ 18	2	- 3	14	- 2	1·92	-0·59	195	+ 48	45	+11
5. ENGLAND, S.E.	91	29	*	*	*	*	524	+ 21	1	0	13	- 3	2·12	-0·68	243	+ 73	57	+17
Western																		
6. SCOTLAND, WEST	70	27	*	*	*	*	343	- 32	5	+ 2	16	- 4	2·48	-2·51	162	+ 23	37	+ 5
7. ENGLAND, N.W.	85	31	*	*	*	*	414	- 12	0	- 1	16	- 2	4·23	+0·55	179	+ 37	41	+ 8
8. ENGLAND, S.W.	91	28	*	*	*	*	499	+ 30	0	0	16	- 3	2·60	-1·26	195	+ 34	46	+ 8
9. IRELAND, NORTH	73	32	*	*	*	*	378	- 16	0	- 1	17	- 5	1·98	-1·89	159	+ 32	37	+ 7
10. IRELAND, SOUTH	82	32	*	*	*	*	425	- 11	0	- 1	16	- 3	3·20	-0·24	177	+ 26	41	+ 7
11. ENGLISH CHANNEL	89	45	*	*	*	*	639	+ 67	0	0	17	- 2	3·46	+0·22	213	+ 13	50	+ 3
	THE YEAR.—Aggregates, &c., for the Period of 40 Weeks, January 1st to October 7th, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	2054	+179	418	-145	167	-17	35·85	-1·15	1132	+135	30	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2282	+167	504	-124	140	-13	16·80	-5·70	1328	+143	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2779	+422	371	-106	119	-18	15·42	-2·38	1435	+150	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3201	+480	409	-115	117	-15	13·96	-3·35	1630	+236	44	+ 6
4. MIDLAND COUNTIES.. ..	98	14	*	*	*	*	3063	+405	417	-121	102	-29	12·23	-7·04	1428	+182	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3251	+329	362	- 20	101	-25	13·47	-5·44	1749	+335	48	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2555	+277	352	- 76	142	-18	27·09	-6·75	1400	+179	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2840	+347	314	- 73	122	-24	21·36	-3 53	1510	+271	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3105	+344	297	- 4	114	-30	19·63	-6·88	1633	+254	45	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2569	+188	302	- 44	137	-37	19·77	-7·96	1352	+234	37	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3000	+278	295	+ 35	143	-11	22·61	-6·01	1442	+183	39	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3498	+340	135	+ 26	120	-32	17·79	-4·13	1822	+145	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **R** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed	Date	Lowest observed	Date	Mean for the Week: Of Highest each day	Mean for the Week: Of Lowest each day	Mean for the Week: For whole of each day	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Accumulated Heat: Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week	Difference from Average	Bright Sunshine. Number of Hours recorded	Difference from Average	Percentage of possible duration	Difference from Average	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	p *Baltasound* S	52	7th	37	2nd	49·3	41·0	45·0	—	25	3	3	0·12	—	16·2	—	21	—	*Baltasound.*
	a Lerwick	52	7th	38	2nd	49·3	41·9	45·5	− 2·2	25	0	2	0·09	—	15·4	− 6·4	20	− 8	Deerness.
	a Stornoway	56	6th	39	1st	52·3	42·3	47·2	− 1·1	36	0	5	0·44	− 0·75	14·1	− 8·3	18	−11	Stornoway.
	a *Castlebay, Barra Isd.*	56	6th	42	1st, 2nd	53·1	44·7	48·8	− 0·8	48	0	5	0·56	—	21·7	—	28	—	*Castlebay.*
b, Mainland.	a Wick	56	4th	39	1st	51·3	42·1	46·6	− 2·3	32	0	5	0·25	− 0·40	*	*	*	*	* *
	p Strathpeffer	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Strathpeffer.
	p Glencarron .. 𝔖	57	6th	37	1st	51·3	39·9	45·4	− 1·9	33	6	5	0·44	− 1·63	*	*	*	*	* *
	p Fort Augustus 𝔖	56	5th	37	1st	52·7	40·1	46·2	− 3·1	37	5	5	0·26	− 0·68	17·5	+ 1·0	22	+ 1	Fort Augustus.
	p Fort William 𝔖	56	6th	36	1st	52·8	40·0	46·2	− 4·1	38	6	3	0·11	− 1·66	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	58	7th	38	2nd	53·1	41·1	46·9	− 3·0	38	3	5	0·52	− 0·18	16·8	—	21	—	*Gordon Castle.*
	a Nairn	56	5, 6, 7th	36	7th	53·6	40·9	47·1	− 1·8	40	3	5	0·39	− 0·13	19·2	—	24	—	Nairn.
	a Aberdeen	60	7th	37	7th	53·4	41·1	47·1	− 2·8	39	3	5	0·30	− 0·32	23·1	− 1·8	29	− 2	Aberdeen.
	a Balmoral .. 𝔖	55	7th	23	7th	50·9	34·9	42·7	− 3·5	35	20	3	0·48	− 0·27	16·5	—	21	—	Crathes S.
	p Crieff .. .. 𝔖	60	5th	34	7th	55·8	39·2	47·3	− 2·6	49	8	1	0·02	− 0·79	25·6	—	32	—	Balruddery.
	a Leith	54	3rd, 7th	38	7th	52·6	42·4	47·4	− 3·6	38	0	3	0·33	− 0·12	*	*	*	*	* *
	p West Linton .. S	55	7th	31	2nd	50·4	36·5	43·2	− 4·9	32	15	5	0·42	—	17·5	—	22	—	*West Linton.*
	p Marchmont .. 𝔖	53	2nd, 7th	34	1st	51·0	40·3	45·5	− 4·0	32	5	5	0·41	− 0·32	16·9	− 6·3	21	− 8	Marchmont.
ENGLAND, N.E. a, North.	a Alnwick Castle ..	55	2nd, 6th	36	2nd	52·7	43·2	47·8	− 2·0	41	0	5	0·53	− 0·18	22·2	—	28	—	Cockle Park.
	a Shields	56	3rd, 6th	35	2nd	53·7	42·6	48·0	− 2·7	42	0	6	0·45	− 0·15	19·5	+ 0·3	25	0	*Newcastle.*
	p Durham	55	2nd	34	2nd	52·5	41·3	46·7	− 3·3	36	2	5	0·54	− 0·06	20·1	− 3·4	25	− 4	Durham.
	p Rounton .. 𝔐	57	6th	32	2nd	52·4	41·0	46·5	− 3·3	36	3	5	0·45	− 0·10	*	*	*	*	* *
	p Scarborough .. M	57	6th	40	2nd	54·4	46·0	50·1	− 1·8	57	0	6	0·58	− 0·02	21·2	—	27	—	Scarborough.
	p York	60	5, 6, 7th	34	2nd	56·0	43·1	49·4	− 2·0	52	0	4	0·28	− 0·24	27·5	+ 4·2	34	+ 5	York.
b, South.	a Spurn Head	60	6th	42	1st, 2nd	55·0	46·1	50·4	− 2·3	59	0	4	0·71	+ 0·27	*	*	*	*	* *
	a Lincoln	60	5th	32	2nd	55·8	42·4	48·9	− 2·6	48	0	4	0·49	− 0·01	29·5	—	37	—	Skegness.
	a Fulbeck	61	5th	32	2nd	55·6	41·0	48·1	− 3·6	47	3	4	0·48	− 0·01	27·8	—	35	—	Rauceby.
															33·4	—	42	—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	59	5th, 6th	40	1st	55·9	46·2	50·9	− 1·6	62	0	5	0·52	—	22·9	—	29	—	Cromer.
	p Hillington .. 𝔐	59	5th	38	3rd	56·3	42·7	49·3	− 2·8	51	0	6	1·13	+ 0·49	18·0	− 8·9	23	−11	Hillington.
	a Yarmouth	60	6th	42	3rd, 4th	56·9	46·4	51·5	− 1·2	67	0	4	0·57	− 0·02	28·6	—	36	—	Yarmouth.
	a Norwich	59	6th	39	3rd	56·1	43·5	49·6	− 3·7	53	0	6	0·59	—	*	*	*	*	* *
	p Geldeston	60	6th	39	3rd, 7th	57·2	43·0	49·9	− 2·4	55	0	4	0·39	− 0·20	27·9	− 2·4	35	− 3	Geldeston.
	p Cambridge	58	5th, 6th	35	3rd	55·3	41·4	48·1	− 4·0	45	2	4	0·26	− 0·23	23·1	− 5·9	29	− 7	Cambridge.
b, South.	a *Felixstowe*	58	3, 5, 6th	38	2nd	56·3	43·6	49·8	− 3·7	55	0	4	0·85	—	31·4	—	39	—	*Felixstowe.*
	a Clacton-on-Sea ..	59	6th	36	2nd	56·6	43·1	49·7	− 3·7	54	0	4	0·96	—	34·6	—	43	—	Clacton.
	a Rothamsted ..	59	6th, 7th	33	2nd	55·0	40·8	47·7	− 3·3	45	3	4	0·24	− 0·36	28·1	− 0·4	35	− 1	Rothamsted.
	a *Shoeburyness* ..	59	6th	37	2nd	55·1	42·4	48·6	− 5·6	46	0	3	0·96	+ 0·50	30·2	—	38	—	*Southend.*
	p Tottenham	59	6th	37	2nd	55·0	42·6	48·6	− 4·8	46	0	2	0·31	—	26·2	—	33	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	57	7th	35	2nd	52·7	41·8	47·1	− 3·2	37	1	4	0·22	− 0·44	27·0	—	34	—	Harrogate.
	a Bawtry	58	6th	34	2nd	54·6	40·9	47·6	− 3·6	44	3	4	0·24	− 0·24	19·1	− 3·6	24	− 5	Worksop.
	p *Buxton* .. M	60	5th	30	2nd	51·1	39·2	45·0	− 3·3	33	8	3	0·34	− 0·63	23·4	—	29	—	*Buxton.*
	a Nottingham ..	59	5th	33	2nd	55·0	41·7	48·2	− 3·6	45	1	4	0·38	− 0·14	25·8	—	32	—	Nottingham.
	p Birmingham, Edgbsn	57	5th	37	2nd	53·6	42·7	48·0	− 3·0	42	0	4	0·28	− 0·27	20·3	—	25	—	Birmingham.
	a Raunds .. 𝔐	57	2nd	30	2nd	54·7	40·6	47·4	− 4·4	44	4	4	0·49	—	*	*	*	*	* *
	a Oxford	60	6th	35	2nd	54·7	42·0	48·2	− 3·9	43	0	5	0·68	+ 0·14	29·7	+ 1·8	37	+ 2	Oxford.
b, West.	a Cheadle .. 𝔐	57	5th, 7th	34	1, 2, 3rd	53·7	38·7	46·0	− 4·0	42	9	4	0·15	− 0·52	17·0	—	21	—	Sheffield.
	p Shrewsbury	60	5th	34	1st, 2nd	54·4	40·1	47·0	− 5·2	43	5	3	0·27	—	*	*	*	*	* *
	a Hereford .. 𝔐	59	3rd	34	2nd	55·6	40·1	47·6	− 4·4	47	5	? 4	? 0·30	− ? 0·23	*	*	*	*	* *
	a Cirencester	57	6th	31	2nd	54·0	42·7	48·2	− 3·4	43	0	4	0·24	− 0·40	30·8	+ 3·8	39	+ 5	Cirencester.
	a Bath	60	5th, 6th	34	2nd	56·0	41·9	48·7	− 4·8	47	0	3	0·15	− 0·46	29·3	—	37	—	Bath.
															35·1	—	44	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	58	5th, 6th	35	2nd	54·6	42·6	48·4	− 4·4	45	0	3	0·28	− 0·26	26·0	− 0·4	33	− 1	Kew.
	a Marlborough ..	58	6th	29	2nd	54·2	39·5	46·6	− 4·0	43	7	4	0·40	− 0·18	23·7	− 1·0	30	− 1	Marlborough.
	a Margate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Margate.
	a Wisley, Surrey ..	57	6th	32	2nd	54·0	39·8	46·7	− 6·5	42	6	3	0·34	—	22·5	—	28	—	Wisley.
	a Swarraton .. 𝔐	58	6th	31	2nd	53·3	40·0	46·5	− 4·9	40	6	4	0·72	+ 0·03	30·1	—	38	—	Worthing.
	a Tunbridge Wells 𝔐	59	6th	32	2nd	53·5	39·1	46·1	− 6·2	41	8	4	2·03	+ 1·33	35·5	+ 5·1	44	+ 6	Tunbridge Wells.
	a Dungeness	60	6th	35	2nd	56·7	43·1	49·7	− 5·2	54	0	3	1·37	+ 0·77	36·8	—	46	—	Littlestone.
	p Hastings	59	6th	34	2nd	55·3	43·3	49·1	− 5·4	50	0	3	1·32	+ 0·56	38·2	+ 5·8	48	+ 7	*Hastings.*
	p Southampton ..	60	6th	35	2nd	54·7	43·0	48·7	− 5·5	47	0	4	0·35	− 0·33	22·6	− 7·9	28	−10	Southampton.
	a Ventnor	60	6th	39	2nd	55·7	44·8	50·1	− 6·0	57	0	5	0·76	+ 0·16	24·3	− 8·7	30	−11	Ventnor.
															35·6	+ 3·4	45	+ 4	Eastbourne.
LONDON .. — ..	a *Westminster* ..	60	6th	36	2nd	56·1	44·1	49·9	− 2·7	55	0	3	0·44	− 0·09	19·0	− 1·2	24	− 2	*Westminster.*
	a *Greenwich*	60	6th	34	2nd	55·3	41·7	48·3	− 5·5	45	0	3	0·27	− 0·23	24·8	− 3·3	31	− 4	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. 𝔖	58	6th	35	5th	52·6	38·7	45·4	− 4·9	38	9	3	0·25	− 0·89	*	*	*	*	* *
	p Glasgow	53	3, 4, 5th	36	1st	52·1	41·7	46·8	− 3·0	35	1	0	0·00	− 0·77	16·9	− 2·2	21	− 3	Glasgow.
	p Rothesay .. 𝔖	58	5th, 7th	38	1st	55·6	42·6	48·9	− 1·8	48	0	2	0·13	− 0·87	*	*	*	*	* *
	a Kilmarnock	54	3rd, 5th	28	1st	52·3	36·9	44·4	− 5·8	38	14	1	0·02	—	17·2	—	22	—	*Kilmarnock.*
	a Colmonell .. 𝔖	62	6th	35	7th	55·1	40·6	47·6	− 3·3	45	4	2	0·33	− 0·65	*	*	*	*	* *
	p Dumfries .. 𝔖	59	7th	34	1st	54·1	40·4	47·1	− 2·5	42	4	0	0·00	− 0·78	26·3	—	33	—	*Dumfries.*
	p Cally, Gatehouse 𝔖	62	7th	27	1st	56·3	37·4	46·6	− 3·3	52	13	1	0·05	− 0·95	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	59	7th	40	1st	54·1	43·9	48·9	− 2·2	48	0	3	0·35	− 0·63	41·0	+13·4	51.	+17	Douglas.
															35·5	—	44	—	Hoylake.
7. a, ENGLAND, N.W. ..	p Aspatria	59	7th	31	1st	53·9	39·7	46·6	− 3·8	42	6	3	0·12	− 0·78	31·5	—	40	—	Aspatria.
	p Newton Rigg ..	58	7th	32	1st	54·5	39·5	46·8	− 2·2	44	7	2	0·07	− 0·73	30·5	+ 7·2	39	+ 9	Newton Rigg.
	p Stonyhurst	57	6th, 7th	36	2nd	53·0	42·6	47·7	− 2·5	40	0	2	0·12	− 0·91	26·9	+ 2·6	34	+ 3	Stonyhurst.
	p Blackpool .. M	60	7th	36	2nd	55·5	41·3	48·2	− 3·9	46	2	3	0·12	− 0·70	39·4	+14·7	49	+18	Blackpool.
	p M'nch'ster, Prestwich	61	7th	35	2nd	55·6	41·2	48·2	− 2·8	47	2	4	0·28	− 0·57	24·3	+ 4·7	30	+ 6	*Prestwich.*
	a Liverpool (Bidston)	58	6th	41	1st	54·1	43·0	48·4	− 3·8	45	0	3	0·23	− 0·49	27·3	—	34	—	*Liverpool.*
	a Hawarden Bridge ..	59	6th	40	1st	55·8	43·5	49·5	− 3·4	53	0	4	0·42	− 0·16	38·3	+13·9	48	+17	*Southport.*
															27·9	—	35	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	57	6th, 7th	45	3rd	54·9	47·5	51·1	− 2·2	64	0	4	0·68	− 0·03	28·0	+ 3·5	35	+ 4	Llandudno.
	a Holyhead	58	6th	44	1st	54·0	46·6	50·2	− 2·8	57	0	2	0·26	− 0·52	29·0	—	36	—	Aberdovey.
	p Bettws-y-Coed ..	58	6th	40	1st, 3rd	54·1	42·3	48·0	− 4·6	42	0	4	0·31	—	19·0	—	24	—	Bettws-y-Coed.
															32·4	—	41	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	57	5th, 7th	31	2nd, 4th	53·5	37·9	45·5	− 4·7	42	11	5	0·26	—	20·3	—	25	—	Llangammarch Wells.
	a Pembroke	60	7th	42	3rd	56·6	45·4	50·8	− 3·1	62	0	3	0·46	− 0·32	27·9	− 0·4	35	− 1	Pembroke.
	p Cardiff	58	5th, 7th	39	2nd	54·9	43·0	48·8	− 3·2	48	0	2	0·02	− 0·93	31·4	—	39	—	*Cardiff.*
															36·8	+ 7·5	46	+ 9	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	58	5th, 6th	39	2nd	55·0	44·1	49·4	− 3·4	52	0	3	0·07	− 0·66	29·8	—	37	—	*Clifton.*
	a Shaftesbury .. 𝔐	54	5th, 6th	36	1st, 2nd	52·3	39·9	45·9	− 6·1	36	6	4	0·31	− 0·40	*	*	*	*	* *
	a Arlington	57	5th, 7th	42	2nd	54·4	44·0	49·1	− 2·6	50	0	2	0·36	− 0·93	30·9	+ 1·1	39	+ 1	Newquay.
	a Cullompton .. 𝔐	59	7th	39	2nd	56·2	43·4	49·6	− 2·7	53	0	5	0·41	− 0·31	24·2	− 1·8	30	− 2	Cullompton.
	a Portland Bill ..	59	5th	? 40	2nd	55·9	44·0	49·8	− 5·1	55	0	4	0·53	—	22·7	—	28	—	*Weymouth.*
	p Plymouth	61	7th	42	4th	57·1	45·5	51·1	− 3·0	64	0	5	0·19	− 0·54	36·4	+ 7·4	46	+ 9	Plymouth.
	p Falmouth	57	2nd, 5th	45	4th	55·4	47·8	51·5	− 2·7	67	0	5	0·62	− 0·33	31·0	+ 1·3	39	+ 2	Falmouth.
															33·7	—	42	—	*Salcombe.*
															28·3	− 2·4	35	− 3	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	55	6th, 7th	43	1st	52·9	45·7	49·2	− 2·3	50	0	2	0·17	− 0·54	*	*	*	*	* *
	a Blacksod Point ..	56	6th, 7th	43	5th	54·4	46·4	50·3	− 2·0	58	0	3	0·28	− 0·80	*	*	*	*	* *
	p Markree Castle ..	59	6th	36	1, 3, 7th	55·9	41·3	48·4	− 1·4	48	2	4	0·17	− 0·73	14·0	− 8·4	18	−11	Markree Castle.
	a Birr Castle	58	6th	32	4th	54·3	38·1	46·0	− 4·5	44	11	2	0·03	− 0·58	19·8	− 5·9	25	− 7	*Birr Castle.*
b, East.	p Armagh	56	6th	37	4th	54·0	40·4	47·0	− 3·5	42	4	3	0·18	− 0·42	19·8	− 3·6	25	− 5	Armagh.
	a Donaghadee	57	6th	40	1st	54·0	45·4	49·6	− 2·3	53	0	1	0·13	− 0·49	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City	57	7th	40	1st	55·0	45·1	49·9	− 2·5	55	0	5	0·32	− 0·23	24·7	− 3·6	31	− 5	Phœnix Park.
	a Kilkenny	58	7th	35	1st	54·3	41·6	47·8	− 3·5	42	1	3	0·10	− 0·51	*	*	*	*	* *
	a Waterford	59	3rd	37	1st	56·1	41·9	48·8	− 3·1	48	0	2	0·48	− 0·32	*	*	*	*	* *
b, West.	a Birr Castle	58	6th	32	4th	54·3	38·1	46·0	− 4·5	44	11	2	0·03	− 0·58	19·8	− 5·9	25	− 7	Birr Castle.
	a Foynes	59	1st	42	4th	55·3	45·0	50·0	− 2·2	56	0	2	0·02	− 0·75	*	*	*	*	* *
	a Cahir .. .. 𝔐	60	6th	40	5th	55·4	43·1	49·1	− 3·2	50	0	3	0·05	—	*	*	*	*	* *
	a Killarney	60	6th	35	4th	56·7	43·1	49·7	− 2·4	54	0	4	0·23	− 0·86	*	*	*	*	* *
	a Valencia	57	2nd, 6th	44	1, 2, 7th	55·7	46·0	50·7	− 3·1	61	0	5	0·20	− 0·90	16·5	−10·0	21	−13	Valencia.
	a Roche's Point ..	59	6th, 7th	43	4th	56·4	45·1	50·6	− 2·8	60	0	2	0·08	− 0·72	37·7	—	47	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	58	2, 6, 7th	45	3rd	56·6	48·0	52·2	− 3·7	71	0	5	1·04	+ 0·32	32·5	+ 0·4	41	+ 1	Scilly.
	a Jersey, St. Aubins ..	59	6th, 7th	48	2nd	56·0	49·3	52·6	− 4·5	74	0	6	1·62	+ 0·81	20·5	−14·4	26	−18	St. Heliers.
	a Guernsey	59	2nd	47	2nd	55·9	48·7	52·2	− 4·2	71	0	7	1·32	+ 0·47	15·7	−16·8	20	−21	Guernsey.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	46·5	—
	— —				
	— —				
1.	Aberdeen	—	—	—	51·6
	Crathes	2	22	48·4	52·6
	Balmoral	3	20	—	—
	West Linton	—	—	—	—
	Marchmont	1	30	47·0	—
2.	Cockle Park	0	35	46·9	51·0
	Durham	1	29	—	—
	York	—	—	52·5	55·6
	Hull	1	30	49·9	54·9
	Lincoln	—	—	49·8	55·6
	Rauceby	2	26	51·8	57·1
3.	Norwich	0	34	—	—
	Yarmouth	—	—	52·6	58·9
	Lowestoft	0	36	52·4	57·4
	Cambridge	2	25	51·1	57·8
	Clacton-on-Sea	0	33	52·7	57·3
	Southend	1	30	54·4	—
	Tottenham	0	32	—	60·4
4.	Harrogate	0	31	49·6	52·8
	Huddersfield	1	28	49·5	54·9
	Buxton	3	26	49·6	54·4
	Sheffield	1	30	50·3	54·7
	Nottingham	1	30	49·7	56·1
	Birmingham	1	26	48·8	53·9
	Oxford	1	29	—	—
	Hereford	4	21	—	—
	Cirencester	1	50	51·7	56·1
	Bath	—	—	54·4	58·2
5.	Margate	—	—	—	—
	Greenwich	1	28	—	—
	Westminster	0	33	—	—
	Kew	2	26	51·7	57·0
	Canterbury	0	32	53·1	59·3
	Tunbridge Wells	2	27	52·4	—
	Wisley	2	22	51·2	57·8
	Worthing	1	30	52·7	59·2
	Portsmouth	0	33	52·6	59·3
6.	Glasgow	1	25	—	—
	Rothesay	—	—	—	52·4
	Colmonell	0	32	—	—
6.	Dumfries	1	30	48·9	54·7
	Douglas	0	36	—	—
7.	Aspatria	3	25	48·9	53·6
	Newton Rigg	4	24	50·7	53·3
	Burnley	3	26	49·0	53·7
	Southport	0	31	49·4	55·5
	Manchester City	2	29	50·8	57·9
	Bettws-y-Coed	0	39	50·1	53·6
8.	Llangammarch Wells	3	17	50·7	54·8
	Cardiff	0	32	51·8	57·3
	Clifton	0	33	—	—
	Plymouth	0	34	53·9	—
9.	Armagh	1	30	52·0	54·3
	Markree	1	29	52·8	55·2
10.	Dublin, Trin. Coll.	0	32	52·5	55·5
11.	Guernsey, Brooklyn	0	37	55·4	61·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	—	—	—
	Kirkwall	47	46	46·5
	Wick	53	51	52·0
SCOTLAND E.	Cromarty	51	49	50·0
	Pennan Bay	51	48	50·0
	Aberdeen, Cove Bay	53	52	52·7
ENGLAND, N.E.	Burnmouth, Berwick	50	49	49·1
	Scarborough	55	46	51·8
ENGLAND, E.	Shipwash Lightship	60	55	57·3
	Margate‡	57	51	53·5
ENGLAND, S.E.	Eastbourne‡	58	57	57·3
SCOTLAND, W.	Lamlash	54	53	53·5
	Ballantrae	54	47	50·6
ENGLAND, N.W.	Port Erin	56	54	54·8
ENGLAND, S.W.	Newquay	59	58	58·8
	Scilly	58	53	54·8
	Plymouth‡	59	57	57·9
	Salcombe	60	54	57·5
IRELAND, N.W.	Sheephaven	55	53	54·0
	Teelin	56	53	54·2
IRELAND, S.W.	Cleggan	55	51	51·7
	Seafield	58	52	55·0
IRELAND, E.		—	—	—

‡ Only one observation each day.

Registering Balloon Ascents, 1911.

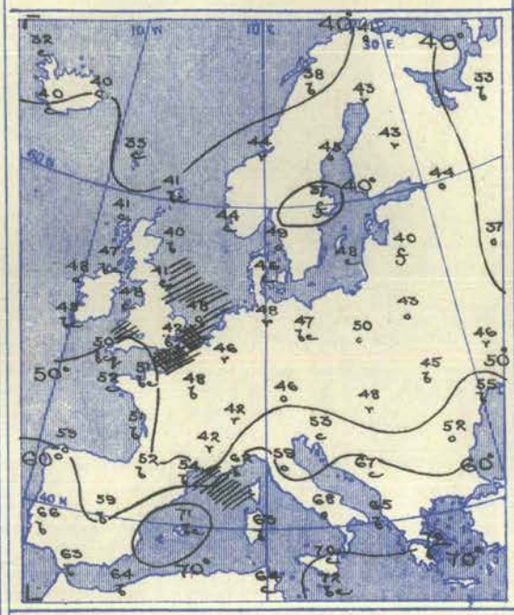
Height km.	1. Manchester. August 3rd, 1911. 8.55 p.m. Pressure. Mgd.	Temperature. °A	2. Manchester. September 4th, 1911. 6.10 a.m. Pressure. Mgd.	Temperature. °A	Height km.
Ground	1·011	291	1·022	286	Ground
0·5	·956	289·5	·965	282	0·5
1·0	·902	281·5	·911	281·5	1·0
1·5	·848	277	·857	281	1·5
2·0	·796	273	·805	280	2·0
2·5	·745	271·5	·756	277	2·5
3·0	·700	271	·712	273	3·0
3·5	·656	267	·668	270	3·5
4·0	·614	264	·626	267·5	4·0
4·5	·575	260·5	·585	264·5	4·5
5·0	·538	257	·547	261·5	5·0
5·5	·504	253	·512	258·5	5·5
6·0	·471	245	·480	255·5	6·0
6·5	·440	244·5	·451	253·5 251	6·5
7·0	·410	240·5	·422	251 246·5	7·0
7·5	·381	237	·392	247 243	7·5
8·0	·354	233	·364	243·5 239·5	8·0
8·5	·328	230	·339	239 235	8·5
9·0	·305	226·5	·315	235 231	9·0
9·5	·284	225·5	·292	231 226·5	9·5
10·0	·264	225·5	·271	227 223·5	10·0
11·0	·225	226·5 224·5	·232	220 217·5	11·0
12·0	·193	227 226·5	·199	219 216·5	12·0
13·0	·165	225	·170	219 216·5	13·0
14·0	·143	226	·147	219 216·5	14·0
15·0	·124	227	·125	218·5 216	15·0
16·0	·108	226·5	·107	218·5 216·5	16·0
17·0	·093	226·5	·090	220 217	17·0
18·0	·080	226	·077	222 218	18·0
19·0	·068	226	·067	223 219·5	19·0
20·0	·058	226	·057	224 221	20·0
21·0	·050	226	·049	225 223·5	21·0
22·0	·044	226			
23·0	·037	226			
24·0	·032	226			
25·0	·027	226			
At minimum pressure	0·027	226	0·044	225·5	At minimum pressure.
Maximum height (km.)	?		21·7		Maximum height (km.)
Minimum temperature	224·5 at 11·0 km.		216 at 15·0 km.		Minimum temperature.
Hc.; Tc.	9·0 kms.	226·5	11·0 kms.	217·5	Hc.; Tc.
Place of fall	Elton, near Beverley, Yorks.		Barton-on-Humber, Lincs.		Place of fall.
Distance (km.)	116		118		Distance (km.)
Direction	65°		79°		Direction.
Gradient, °C per 100 m.	0·72°		0·53		Gradient °C per 100 m.
Ground to	7 kms.		7 kms.		Ground to.

Notes.—2. Balloon seen falling, 8.30 a.m.

Sunday, 1st October, 1911.

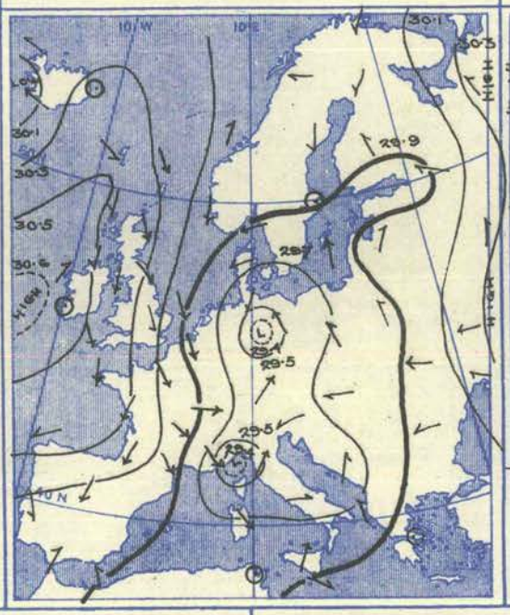
Temperature and Weather.

7 a.m.

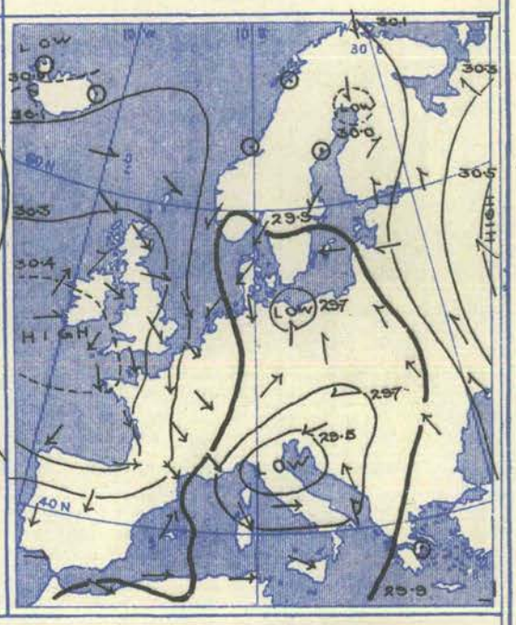


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine in most parts of the United Kingdom, but overcast in some localities, and showery in the Hebrides. Rainy in several parts of central Europe, the east of France, and the Low Countries, as well as at Keiff and Christiansund, and very cloudy or dull on the Continent generally except in the extreme south. Some slight showers later in various districts in these Islands, and heavy rain over a considerable portion of the Continent; 0·8 in. at Rome, and nearly an inch at Buda-Pesth.

Temperature fallen generally. Readings in morning ranging from about 70° at a few stations in the far south to below 50° over our area as a whole, and to below 35° in central Ireland and at Archangel. Maxima slightly above 50° at most of our own stations and in the east of France, Austria and Germany, above 70° over the south of Europe, and about 80° in places. Thermometer rising to 86° at Tunis. Minima during night low over England and Ireland. Frost on the grass over a large area.

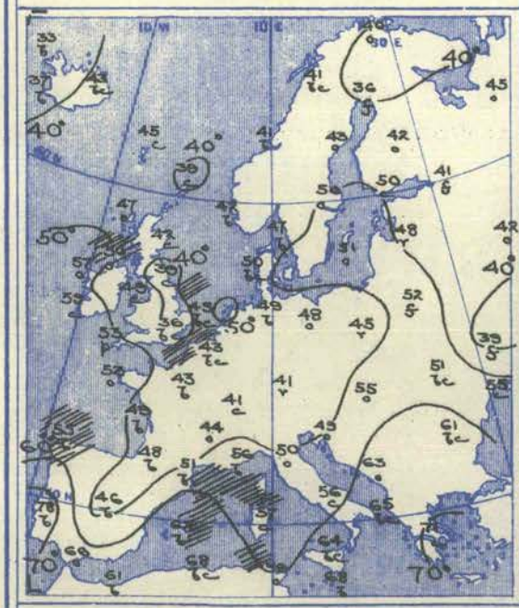
Wind in morning showing a complex cyclonic movement over central and southern Europe. Northerly current strong to a gale on the Dutch coast, and fresh to strong over the east and south of England, as well as in France. Northerly wind decreasing in force generally, but increasing to a gale in the east and south of France, and to a strong breeze or high wind over a considerable portion of the Mediterranean. Easterly current becoming stronger over eastern Europe, and at Trieste.

Barometer in morning below 29·4 in. in a large depression having its centre near Cassel, and below 29·4 in. in another minimum over the Gulf of Genoa. Above 30·5 in. over the west of Ireland and the adjacent part of the ocean, and nearly as high in the south-east of Russia. Northern depression moving eastward later and decreasing considerably in intensity; southern disturbance also travelling eastward, and apparently becoming slightly less deep. Pressure increasing very quickly over the Gulf of Genoa and its immediate vicinity.

Monday, 2nd October, 1911.

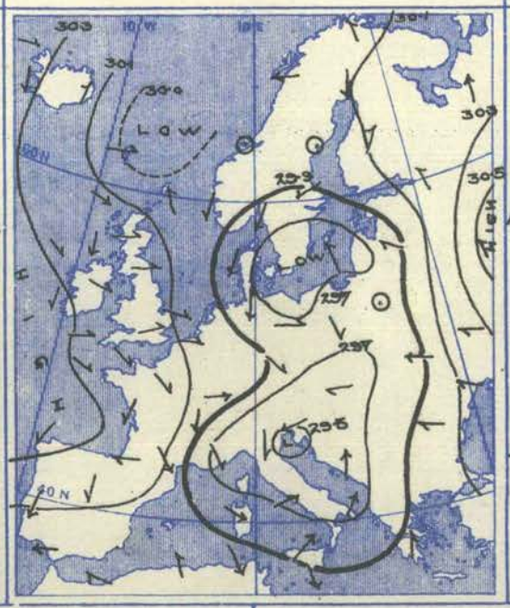
Temperature and Weather.

7 a.m.

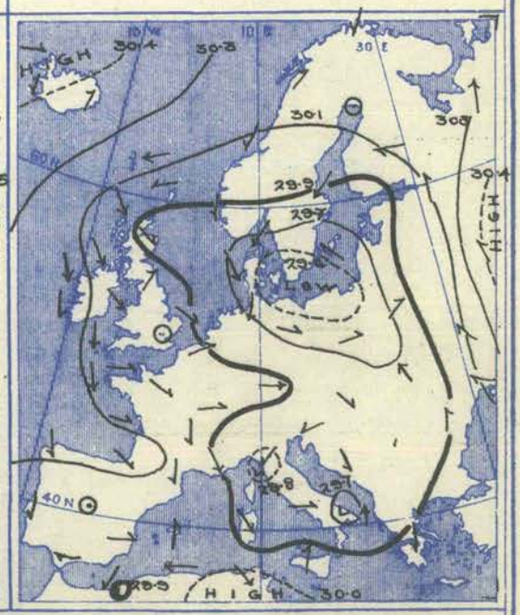


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast, with rain in places, over a large area, including the Baltic region, central Europe, and Italy; cloudy to fair in most other parts of our area, but rainy at Pembroke, and showery at Scilly. Rain experienced later over the major portion of our area; amounts slight to moderate generally, but 0·9 in. at Stockholm, 1·6 in. at Patras, and about 0·5 in. in some other localities on the Continent.

Temperature risen in the west and north of these Islands, fallen over our area as a whole. Readings in morning ranging from 78° at Lisbon, 71° in the south of Spain and at Athens, and 65° at some other southern stations, to below 50° over these Islands and most of the Continent, to 36° in London and 35° at Nottingham. Maxima below 55° over the greater part of the United Kingdom, Germany, and Austria, above 65° at various places in Italy and the south of France, nearly 80° in Greece and Algeria, 81° at San Fernando, and 82° at Brindisi. Slight frost at night on the grass in central England.

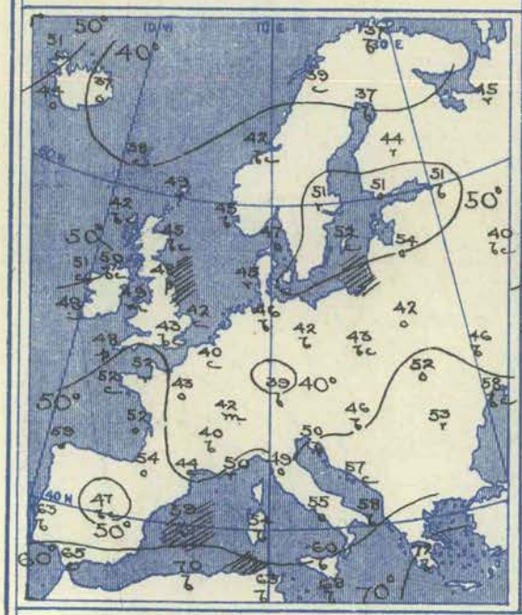
Wind in morning cyclonic generally, the chief circulation being over Italy and its neighbourhood. North-Westerly to Westerly current fresh or strong in the south of France, the adjacent Islands, and at Cape de Garde. A strong wind from North prevailing at Malin Head, and a fresh North-West breeze at Spurn Head and Dover. No general change occurring later in day, but Northerly to North-Easterly current increasing in force over the south of Scandinavia and a strong breeze from the Eastward setting in at Thorshavn.

Barometer in morning about 30·5 in. on the Atlantic some distance to the westward of Ireland, and also in central Russia. Below 29·5 in. in a depression centred over the Gulf of Venice, and below 29·7 in. in a disturbance over the Baltic. Below 30·0 in. in a shallow system to the northward of Shetland. Baltic depression increasing in intensity during day, but that in the south decreasing. A secondary disturbance moving southwards to the east of Scotland. Little change occurring in the general situation.

Tuesday, 3rd October, 1911.

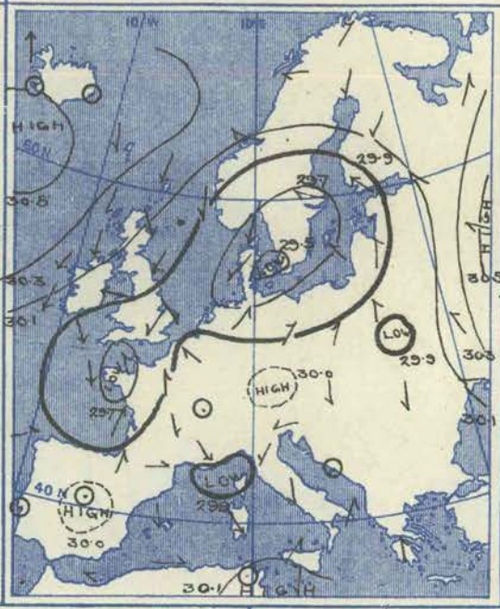
Temperature and Weather.

7 a.m.

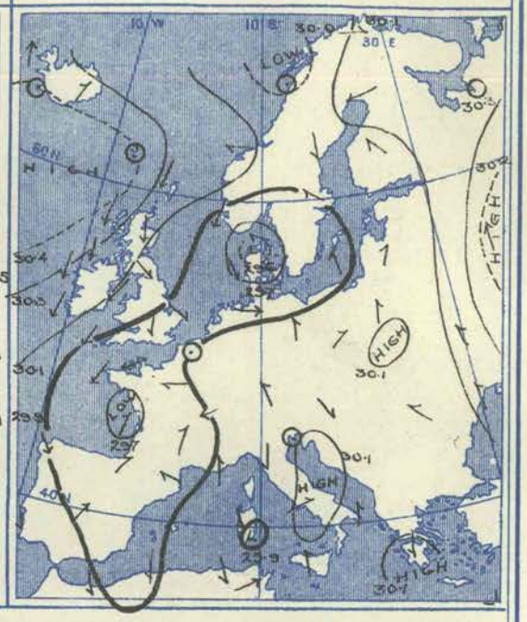


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy over Denmark and the south of Scandinavia, as well as in several parts of France, and at a few of our own stations; cloudy to fair or fine in most other regions but rain falling at Kuopio and Hermanstadt. More than 1·25 in. of rain later in various parts of France, and nearly as much at Lugano. Smaller amounts in Great Britain and over a large area on the Continent.

Temperature risen at most stations in the western and north-western countries, fallen generally in the south. Morning readings 72° at Athens, 70° at Algiers, and about 60° at some other extreme southern stations and at Bucharest; below 50° over our area as a whole, 40° at Lyons, 39° at Munich, and a little lower in the north of Scandinavia. Remaining below 60° throughout day in these Islands and Germany, and below 55° in many places, but touching or exceeding 70° over a considerable area in southern Europe, and rising to 86° at Tunis.

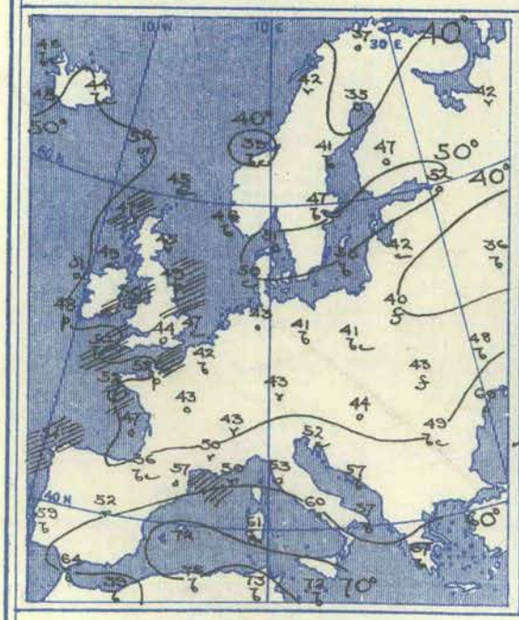
Wind in morning circulating cyclonically over the greater portion of our area. Northerly to North-Easterly current fresh to strong on some parts of our own coasts, and strong to a strong gale in Denmark and southern Scandinavia. A decrease in force taking place during day in Scandinavia and Denmark, but wind increasing to a gale for a brief period at Wick late in evening.

Barometer in morning above 30·5 in. in central Russia, and also on the ocean to the southward of Iceland; below 29·7 in. in a depression over Brittany, and below 29·5 in. in another centred near Copenhagen. Relatively low in some smaller systems elsewhere. No important change in the general distribution of pressure later in day, and little in the position and intensity of the low pressure systems. Northern disturbance extending somewhat towards Scotland.

Wednesday, 4th October, 1911.

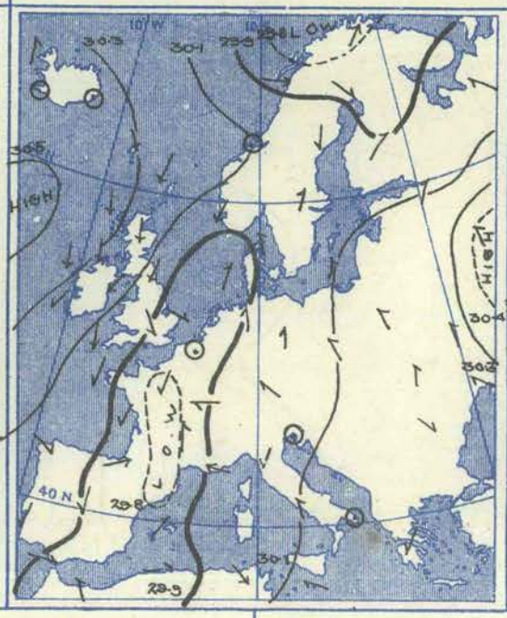
Temperature and Weather.

7 a.m.

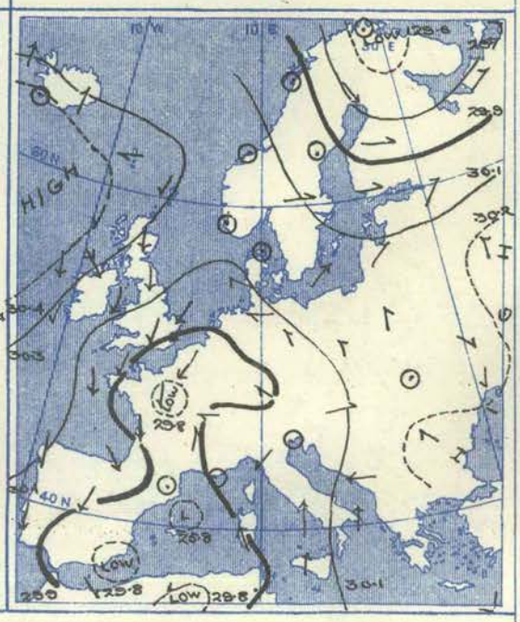


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or overcast in nearly all parts of the United Kingdom, France, northern Italy, and the Spanish Peninsula, with rain or passing showers in several localities. Generally fair to bright elsewhere, but rainy at Bodö. About 0·5 in. of rain later at Oxford and at some stations in the south-east of England, and larger quantities in France, Switzerland, at Rome, and Monaco; 2·25 in. at the latter station, and 1·3 in. at Geneva.

Temperature changed little generally, risen in the extreme north-west of our area. Morning readings ranging from 75° at Algiers, 72° at Malta and Palma, and above 60° at some other southern stations to below 45° in the south-east of England and over the greater portion of the Continent, and to below 40° in central Russia and the north of Scandinavia. Rising subsequently to 95° at Tunis, 86° at Cape de Garde, 82° at Palermo, and to between 70° and 80° over a considerable area in the south. Maxima below 60° in the central countries and these Islands, and as low as 49° at Turin.

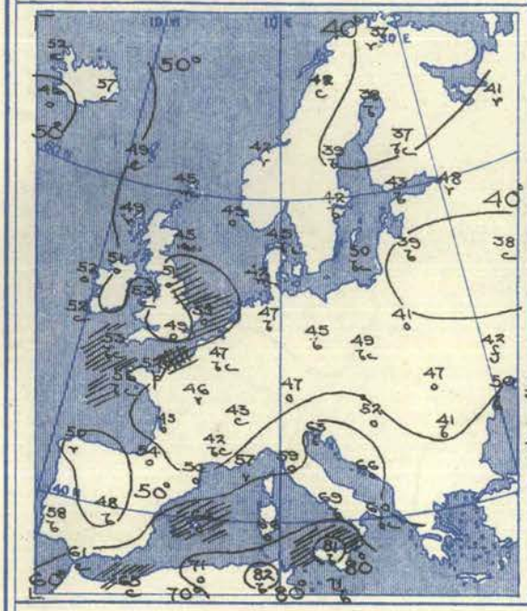
Wind in morning mainly cyclonic over the western half of Europe, anticyclonic elsewhere. Mostly light or moderate, but Northerly current fresh to strong over the United Kingdom and Brittany. Increasing in force from the Southward in Italy and its vicinity later in day, and blowing a gale from North-West at Malin Head, and a strong breeze from that point in the south of Spain and Portugal.

Barometer in morning above 30·4 in. in a high pressure system over central Russia, and above 30·5 in. in another centred on the Atlantic to the westward of these Islands; relatively low in a band extending from Morocco to the north of Scandinavia, below 29·8 in. in the latter region and also in central France. Low pressure band undergoing considerable modification in form later; pressure increasing decidedly in the south of Scandinavia, falling in the north. Russian anticyclone extending somewhat in a South-Westerly direction, but decreasing in intensity.

Thursday, 5th October, 1911.

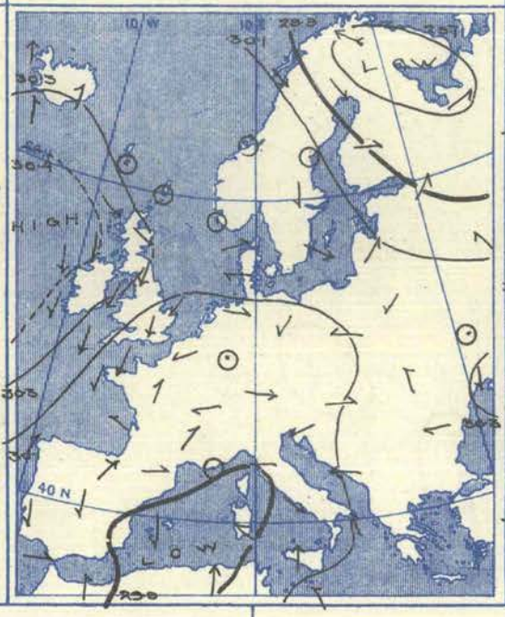
Temperature and Weather.

7 a.m.

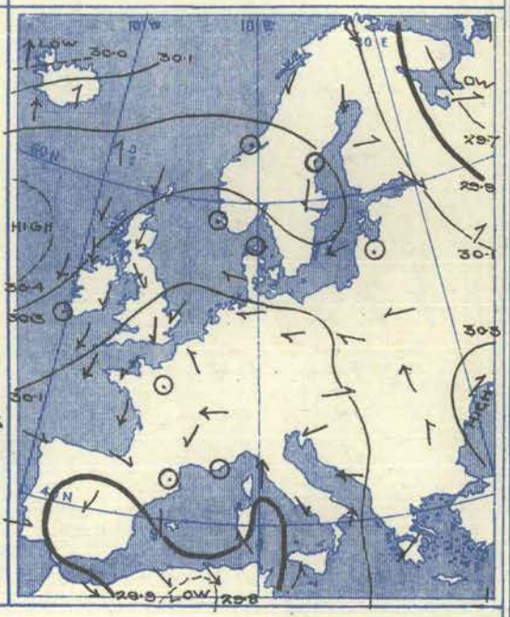


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in the north of Scotland, some parts of France and northern Italy, as well as at Corunna and in places over a large area in the far north of Europe. Variable in most other regions, but generally fine over the Mediterranean. Slight to moderate amounts of rain later in most parts of these Islands, the north of France, and in some other localities on the Continent, and more than an inch in the south-east of France. As much as 2·1 in. at Monaco. Thunderstorms at night at Portland Bill and Great Yarmouth.

Temperature risen in these Islands and central Europe, fallen or changed little elsewhere. Morning readings ranging from below 40° at some stations in the north of our area, and very little above it at Lyons and Belfort, to about 55° in the east of England to 60° or higher on most shores of the Mediterranean, to 81° at Palermo, and 82° at Cape de Garde. Rising to 59° or 60° during day in the south of England and also over a large area in France and central Europe, exceeding 70° very generally over the south of Europe, touching 92° at Palermo and 95° at Tunis.

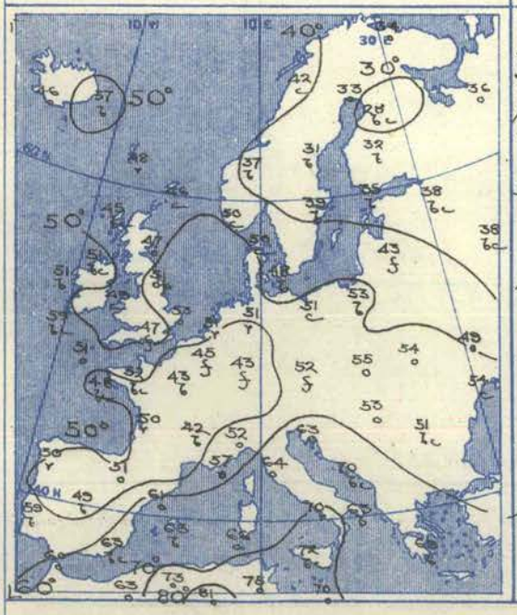
Wind in morning cyclonic over France and the Mediterranean and also over the north of the Continent; anticyclonic over the Atlantic and in the south-east of Europe. Northerly current fresh to strong in many parts of these Islands, and that from South fresh to high at a few Mediterranean stations. Little force generally elsewhere, but an Easterly gale prevailing at Vardö. Not much change during day as a whole, but gale subsiding at Vardö, and wind decreasing in force on the Mediterranean. A Southerly breeze becoming more pronounced in Iceland.

Barometer in morning below 29·7 in. in a large depression over the White Sea region, and below 29·9 in. in another having its minimum over Normandy, and also in an irregularly shaped area on the Mediterranean; above 30·3 in. in the south of Russia, and above 30·5 in. on the Atlantic some distance to the west of Ireland. No general change occurring during day in the distribution of pressure, but barometer falling rather decidedly over Iceland. Russian disturbance travelling eastwards.

Friday, 6th October, 1911.

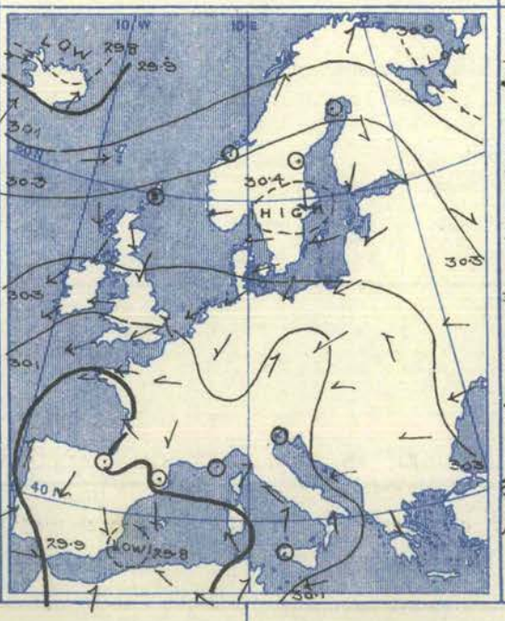
Temperature and Weather.

7 a.m.

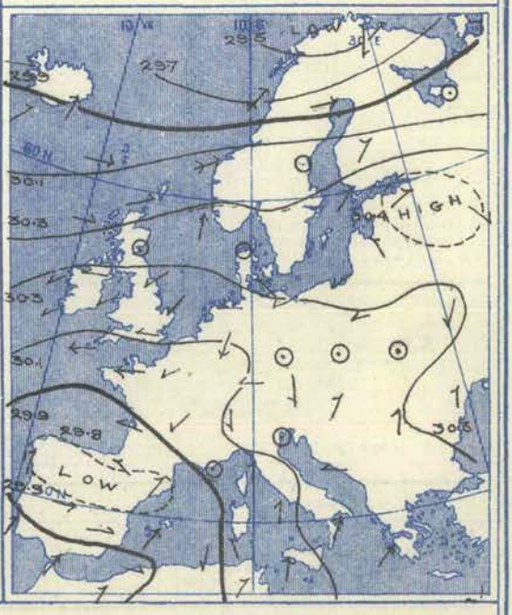


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rather changeable over the western countries; fair to bright in several localities, but rainy in the east of England, on the southern shores of the North Sea, and also at Rochefort and Corunna. Fair to fine over a large area in the south of Europe, but rain falling at Naples. As much as 3·1 in. of rain later at Lugano, 1·3 in. at Gap, 1·0 in. at Turin, and moderate to rather heavy quantities in the south of France and the north of Italy generally, and also in Little Russia.

Temperature fallen in most regions. Morning readings about 70° at some stations in the extreme south of our area, but below 50° over the major portion of the Continent and at many of our own stations; below 40° in most of Russia, Finland and Sweden, and as low as 28° at Kuopio. Maxima during day 59° or 60° in various parts of England and Ireland, the north of France, the Netherlands and Germany; above 70° at many places further south; 83° at Brindisi, 86° at Patras, 88° at Tunis, and 93° at Palermo.

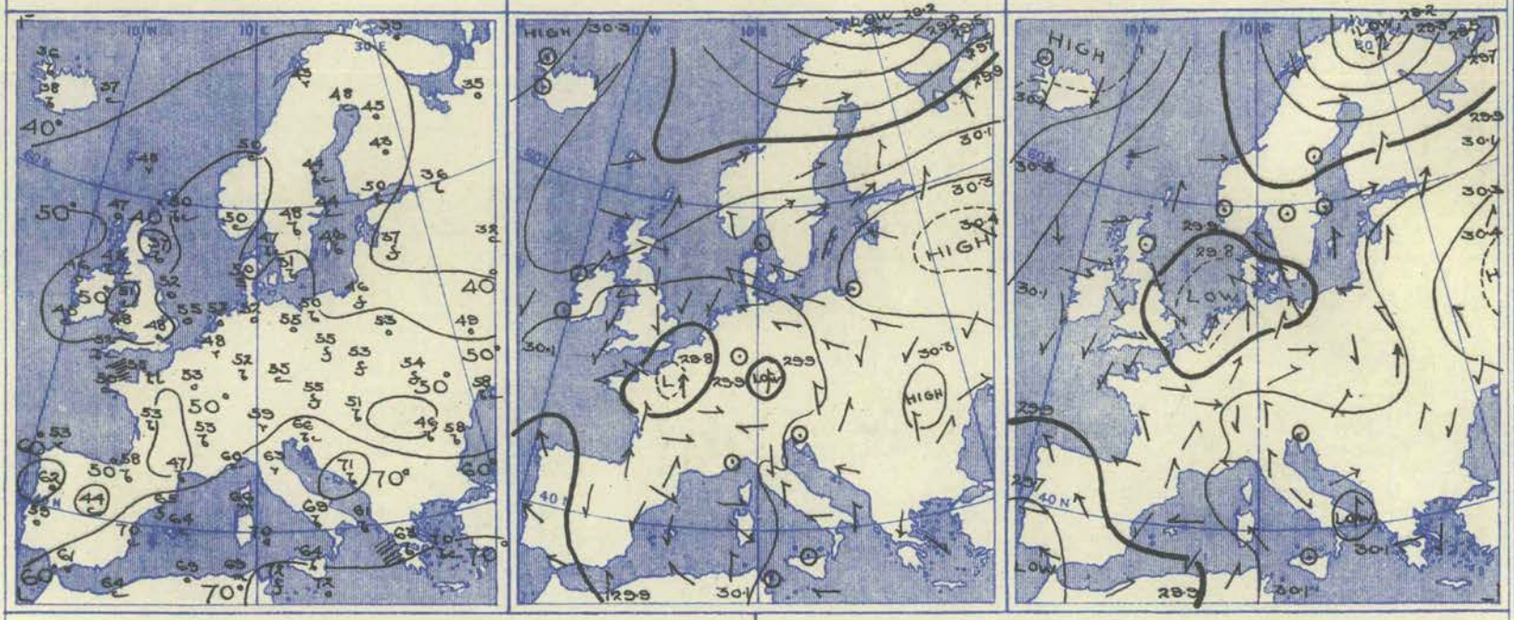
Wind in morning cyclonic over the south and south-west of our area, and also in the Icelandic region. North-Easterly to Easterly current moderate to fresh in these Islands, and a fresh breeze from the Eastward prevailing at Lesina and Cagliari, but no great force reported over Europe generally. South-Westerly winds strong to a gale in Iceland. No general change occurring later; increasing to a gale from the South-Westward in the north and north-west of Norway.

Barometer in morning above 30·3 in. in a band extending from the Atlantic across Scandinavia to central and southern Russia; below 29·9 in. in an irregularly shaped depression covering the Bay of Biscay, the Spanish Peninsula, and the adjacent part of the Mediterranean, and below 29·8 in. in the north of Iceland and its vicinity. Anticyclonic band becoming somewhat attenuated during day, Northern depression travelling in an Easterly direction, and a decrease of pressure taking place in the extreme south-west of our area.

Saturday, 7th October, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning cloudy or overcast over the major portion of our area, with showers at Spurn Head, and rain in many parts of France and northern Italy, as well as at Funchal, some stations in the Spanish Peninsula, and at Bodö. A thunderstorm in progress at Jersey. Rain experienced later over a considerable area on the Continent and in various parts of this country; between 0·6 in. and 0·8 in. in the Netherlands, the south-east of England, and the adjacent portion of France.

Temperature changed rather irregularly; risen in most regions. Morning readings about 70° at Lesina and a few stations on the shores of the Mediterranean, and above 60° in the south generally; below 50° in most parts of the United Kingdom, and below 40° in the north-east of our area; as low as 32° at Moscow. Touching 60° later at a few of our own stations, rising to between 70° and 80° at many stations in the south of Europe, and to above 80° locally.

Wind in morning cyclonic except in the east of Europe. Light or moderate generally, but a strong breeze from East prevailing at Lesina, and a strong to high wind from the Westward in the north of Norway. A fresh Northerly to North-Easterly breeze blowing on the Straits of Dover. Wind shifting to the Northward by evening in the east and south-east of England. No change over a large area.

Barometer in morning above 30·4 in. in a high pressure system centred over Russia, and above 30·3 in. in Transylvania. Below 29·2 in. in the extreme north of Scandinavia, and below 29·8 in. in the north-east of France, and also between Funchal and Morocco. French depression moving to the North Sea later in day and to Denmark at night. Pressure giving way decidedly in the extreme south-west of our area and also in the north and north-east of these Islands, but beginning to rise briskly in Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
1	1911. October 4th, 10.58 a.m. to 11.18 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	283° 90% 360°, 8	282·5° 90% 360°, 12	280° 100% 360°, 15	277·5° 100% 360°, 15				277·5° 100% 360°, 25 Metres. 1,200	Overcast. Rain. Kite encountered a very strong wind at 1,200 m. and dived to the ground.

APPARATUS USED IN THE KITE OR BALLOON ASCENT.

No. of Ascent.	1
No. of Kites	1
Area of Surface (sq. metres) ..	5
Capacity of Balloon (cub. metres) ..	—
Length of Wire (metres)	1,500

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FIRST WEEK—October 8th to October 14th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	59	29	51·9	39·4	45·4	− 1·3	35	− 5	7	+ 1	1	− 4	0·04	−1·21	14	− 4	18	− 5
Eastern																		
1. SCOTLAND, EAST	61	24	53·8	35·3	44·3	− 2·6	44	+ 1	19	+12	1	− 3	0·05	−0·69	26	+ 5	34	+ 7
2. ENGLAND, N.E.	63	31	55·9	40·6	48·0	− 0·8	48	− 2	4	+ 1	2	− 2	0·04	−0·62	26	+ 2	34	+ 3
3. ENGLAND, EAST	65	34	58·1	44·3	51·0	+ 1·2	63	+ 4	0	− 4	3	− 1	0·41	−0·22	28	+ 3	37	+ 4
4. MIDLAND COUNTIES	67	31	57·1	39·7	48·2	− 0·4	53	0	6	+ 1	1	− 3	0·07	−0·60	27	+ 4	35	+ 6
5. ENGLAND, S.E.	67	32	59·4	45·4	52·2	+ 1·1	71	+ 4	0	− 3	2	− 2	0·25	−0·47	32	+ 6	41	+ 8
Western																		
6. SCOTLAND, WEST	62	26	55·2	38·3	46·5	− 1·8	47	− 2	10	+ 6	0	− 4	0·00	−1·11	25	+ 5	33	+ 6
7. ENGLAND, N.W.	68	30	56·9	40·0	48·2	− 1·4	52	− 3	6	+ 5	0	− 5	0·00	−0·93	40	+ 20	53	+26
8. ENGLAND, S.W.	68	30	59·4	45·2	52·1	+ 1·2	71	+ 7	0	− 2	1	− 3	0·16	−0·87	35	+ 11	46	+14
9 IRELAND, NORTH	65	28	56·8	41·5	49·0	+ 0·3	51	+ 1	1	− 1	1	− 4	0·02	−0·86	18	− 3	23	− 4
10. IRELAND, SOUTH	65	32	58·1	44·9	51·3	− 1·2	65	+ 6	0	− 2	2	− 2	0·32	−0·55	24	− 1	31	− 1
11. ENGLISH CHANNEL	67	46	60·6	51·0	55·7	+ 1·4	96	+ 10	0	0	2	− 3	1·04	+0·16	31	+ 1	40	+ 1

THE SEASON (Autumn).—Aggregates, &c., for the Period of 6 Weeks, September 3rd to October 14th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
0. SCOTLAND, NORTH	68	29	*	*	*	*	333	− 28	10	− 2	24	− 5	4·11	−2·73	130	− 1	26	0
Eastern																		
1. SCOTLAND, EAST	77	23	*	*	*	*	367	− 21	31	+16	16	− 8	1·54	−2·13	182	+ 28	36	+ 6
2. ENGLAND, N.E.	89	31	*	*	*	*	463	+ 6	4	− 1	18	− 3	2·57	−0·43	223	+ 49	44	+10
3. ENGLAND, EAST	93	33	*	*	*	*	578	+ 58	0	− 7	17	− 3	2·72	−0·31	246	+ 54	49	+11
4. MIDLAND COUNTIES	94	30	*	*	*	*	493	+ 18	8	− 2	15	− 5	1·99	−1·19	222	+ 52	44	+10
5. ENGLAND, S.E.	91	29	*	*	*	*	595	+ 25	1	− 3	15	− 5	2·49	−1·03	275	+ 79	54	+16
Western																		
6. SCOTLAND, WEST	70	26	*	*	*	*	390	− 34	15	+ 8	16	− 8	2·48	−3·62	187	+ 28	37	+ 5
7. ENGLAND, N.W.	85	30	*	*	*	*	466	− 15	6	+ 4	16	− 7	4·23	−0·38	219	+ 57	43	+11
8. ENGLAND, S.W.	91	28	*	*	*	*	570	+ 37	0	− 2	17	− 6	2·76	−2·13	230	+ 45	46	+ 9
9. IRELAND, NORTH	73	28	*	*	*	*	499	− 15	1	− 2	18	− 9	2·00	−2·75	177	+ 30	35	+ 6
10. IRELAND, SOUTH	82	32	*	*	*	*	490	− 5	0	− 3	18	− 5	3·52	−0·79	201	+ 26	40	+ 5
11. ENGLISH CHANNEL	89	45	*	*	*	*	735	+ 77	0	0	19	− 5	4·50	+0·38	244	+ 14	48	+ 3

THE YEAR.—Aggregates, &c., for the Period of 41 Weeks, January 1st to October 14th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
0. SCOTLAND, NORTH	84	14	*	*	*	*	2089	+174	425	−144	168	−21	35·86	−2·39	1146	+131	30	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2326	+168	523	−112	141	−16	16·85	−6·39	1354	+148	36	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2827	+420	375	−105	121	−20	15·46	−3·00	1461	+153	39	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3264	+484	409	−119	120	−16	14·37	−3·57	1658	+238	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3116	+405	423	−120	103	−32	12·30	−7·64	1455	+187	39	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3322	+333	362	− 23	103	−27	13·84	−5·79	1781	+342	48	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2602	+275	362	− 70	142	−22	27·09	−7·86	1425	+184	38	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2892	+344	320	− 68	122	−29	21·36	−4·46	1550	+291	41	+ 8
8. ENGLAND, S.W.	91	13	*	*	*	*	3176	+351	297	− 6	115	−33	19·79	−7·75	1668	+265	45	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2620	+189	303	− 45	138	−41	19·79	−8·82	1370	+222	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3065	+284	295	+ 33	145	−13	22·93	−6·56	1466	+183	39	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3594	+350	135	+ 26	122	−35	18·83	−3·97	1853	+146	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Hoar frost.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ♁ is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 41. FORTY-FIRST WEEK, SUNDAY, OCTOBER 8TH, TO SATURDAY, OCTOBER 14TH, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather. The general condition was fair and dry, but a good deal of mist and fog prevailed in the middle and latter part of the week, and rain was experienced at times in nearly all districts. Thunder and lightning occurred on the 13th at several places in the southern parts of England and Wales.

Temperature varied considerably in the different districts. In Scotland, the south of Ireland, the Midland Counties and England N.E. and N.W. it was below the average, while elsewhere it was above it, the greatest divergence being—2°·6 in Scotland E. The highest of the maxima were recorded early in the week in most parts of Scotland and in England N.E. but on the 13th and 14th over the Kingdom as a whole. The values ranged from 68° in England N.W. and S.W., to 61 in Scotland E. and to 59° in Scotland N. The lowest of the minima were registered during the earlier half of the week, and ranged from 24° in Scotland E. (at Balmoral on the 10th), and 26° in Scotland W. to 32° in England S.E. and Ireland S., and to 46° in the English Channel. The lowest grass readings were 17° at Llangammarch Wells, 20° at Balmoral, 21° at Crathes and Hereford, and 24° at Birmingham and Markree Castle.

Mean Temperature of the Sea. At almost all stations the water was colder than during the corresponding week of last year, the difference being in many places very considerable. The means for the week ranged from 58° at Newquay and Salcombe, to 49° at Burnmouth and Ballantrae, and to 46° at Kirkwall.

Rainfall was much less than the average in all districts. In Scotland W. and England N.W. there was no rain, and in several other districts many places reported no measurable quantity. On the 13th as much as 2·42 in. fell at Jersey and 1·03 in. at Dover.

Bright Sunshine was rather less than the average in Ireland and in Scotland N., but above it elsewhere, the excess being very large in England N.W. The percentage of the possible duration ranged from 53 in England N.W., 46 in England S.W. and 41 in England S.E. to 23 in Ireland N. and 18 in Scotland N.

Barometer and Wind. The pressure distribution over these islands was mainly anticyclonic, and the wind generally light or moderate. At the beginning of the week an anticyclone lay over the Atlantic, while a "Col" over this country extended to another, but less important anticyclone over central Europe. The western high pressure system subsequently moved briskly over these islands, where it increased considerably in intensity, its borders extending to the central parts of the Continent. By Saturday, however, a change in the distribution had occurred, pressure having become highest in Scandinavia, while a depression having its centre to the south-westward of these islands, was causing the wind to increase from the Eastward on our south-western and southern coasts.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 332.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Very light	Very light	Very light	Moderate	Very light	Light	Nought	Nought	Very light	Very light	Light	Moderate
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Abundant	Moderate	Very abundant	Abundant	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

		0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
AUTUMN, 6 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 2	1 * 1	1 * 1	2 * 1	1 * 2	2 * 2	1 * 2	1 * 2	2 * 2	1 * 2	1 * 2	3 * 1
	Rainfall ...	2 * 3	0 * 3	2 * 2	1 * 1	0 * 2	0 * 2	0 * 4	2 * 3	1 * 4	0 * 4	1 * 3	3 * 1
	Sunshine ...	2 * 1	3 * 0	3 * 0	4 * 0	3 * 0	5 * 0	2 * 1	4 * 1	3 * 1	2 * 1	1 * 1	1 * 2

PAST SEASONS.

		0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10049 / 450 Wy. & S., Ltd. 10–11.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands	p *Baltasound* S	*52*	*11th*	*37*	*9th*	*49·9*	*43·9*	*46·8*	—	*34*	*0*	*6*	*0·31*	—	*0·6*	—	*1*	—	*Baltasound.*
	a Lerwick	53	11th	38	9th	50·1	41·4	45·6	− 1·0	28	2	5	0·22	—	8·3	−11·6	11	−16	Deerness.
	a Stornoway	58	14th	37	10th	52·6	41·9	47·1	0·0	36	0	0	0·00	− 1·25	17·0	− 3·6	23	− 5	Stornoway.
	a *Castlebay, Barra Isd.*	*56*	*14th*	*43*	*10th*	*53·9*	*47·6*	*50·7*	+ *1·9*	*61*	*0*	*0*	*0·00*	—	*17·3*	—	*23*	—	*Castlebay.*
	a Wick	53	11th	34	10th	50·9	41·4	46·0	− 1·6	31	2	0	0·00	− 0·69	*	*	*	*	* *
b, Mainland	p Strathpeffer.. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Strathpeffer.
	p Glencarron .. S	59	14th	33	10th	51·5	37·3	44·2	− 1·7	35	13	0	0·00	− 2·10	*	*	*	*	* *
	p Fort Augustus S	56	11th	29	10th	51·4	37·1	44·0	− 3·6	35	14	1	0·01	− 0·94	15·1	+ 0·1	20	0	Fort Augustus.
	p Fort William S	59	11th, 12th	31	10th	54·6	37·3	45·7	− 3·1	46	13	0	0·00	− 1·76	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	59	11th	33	9, 10, 13, 14	53·7	34·6	43·9	− 4·5	44	21	0	0·00	− 0·75	*24·9*	—	*33*	—	*Gordon Castle.*
	a Nairn	56	10th, 11th	29	10th	51·6	35·1	43·1	− 4·4	37	19	1	0·09	− 0·44	28·0	—	37	—	Nairn.
	a Aberdeen	60	11th	32	10th, 11th	53·3	35·0	43·9	− 4·4	43	20	1	0·02	− 0·63	24·8	+ 1·2	33	+ 2	Aberdeen.
	a Balmoral .. S	61	9, 10, 12th	24	10th	57·1	30·1	43·2	− 1·3	58	33	1	0·03	− 0·78	26·2	—	35	—	Crathes S.
	p Crieff .. .. S	60	10th, 11th	33	10th, 12th	54·4	36·6	45·2	− 3·0	45	15	1	0·07	− 0·77	23·3	—	31	—	Balruddery.
	a Leith	56	14th	36	12th	53·1	39·1	45·9	− 3·9	39	8	1	0·05	− 0·42	*	*	*	*	* *
	p West Linton.. S	57	11th, 13th	27	12th	53·5	33·1	43·0	− 3·6	44	25	1	0·05	—	*33·7*	—	*44*	—	*West Linton.*
	p Marchmont .. S	60	11th	34	11th	53·7	39·0	46·1	− 1·3	41	8	1	0·06	− 0·73	26·5	+ 5·2	35	+ 7	Marchmont.
2. ENGLAND, N.E. — a, North	a Alnwick Castle ..	57	10th	31	11th	54·5	38·5	46·3	− 1·3	45	10	3	0·10	− 0·70	27·3	—	36	—	Cockle Park.
	a Shields	57	8th	36	11th	54·9	39·7	47·1	− 2·1	45	6	3	0·07	− 0·59	*17·8*	+ *0·3*	*23*	*0*	*Newcastle.*
	p Durham	56	11th	31	12th	53·7	38·0	45·6	− 3·0	42	11	2	0·03	− 0·65	22·9	+ 1·1	30	+ 1	Durham.
	p Rounton .. M	59	11th	31	12th	55·0	38·2	46·4	− 1·7	47	11	2	0·03	− 0·61	*	*	*	*	* *
	p Scarborough.. M	58	11th	41	11th	55·1	44·7	49·8	− 0·3	55	0	2	0·02	− 0·68	22·9	—	30	—	Scarborough.
	p York	58	8th, 10th	33	12th	56·4	39·9	47·9	− 1·9	50	6	1	0·01	− 0·57	25·1	+ 4·0	33	+ 5	York.
b, South	a Spurn Head	58	11th	46	11th, 13th	56·9	47·6	52·1	+ 1·0	71	0	1	0·06	− 0·44	*	*	*	*	* *
	a Lincoln	60	13th	35	11th	57·2	40·1	48·4	− 1·2	53	5	0	0·00	− 0·56	34·4	—	45	—	Skegness.
	a Fulbeck	63	8th	35	11th	59·2	38·4	48·5	− 0·9	61	10	1	0·02	− 0·52	20·7	—	27	—	Rauceby.
															31·6	—	*42*	—	*Lowestoft.*
3. ENGLAND, E. — a, North	p Cromer	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Cromer.
	p Hillington .. M	62	12th	34	11th	58·1	42·8	50·2	+ 0·1	57	0	5	0·21	− 0·47	30·8	+ 6·4	41	+ 8	Hillington.
	a Yarmouth	59	8th	44	11th, 12th	57·1	47·6	52·2	+ 1·0	71	0	1	0·15	− 0·50	30·9	—	41	—	Yarmouth.
	a Norwich	60	12th, 13th	36	11th	57·8	43·2	50·3	− 1·0	58	0	3	0·49	—	*	*	*	*	* *
	p Geldeston	61	13th	36	11th	57·8	43·3	50·3	− 0·3	58	0	4	0·41	− 0·22	27·0	− 0·5	36	− 1	Geldeston.
	p Cambridge	65	12th	36	11th	58·7	41·8	50·0	− 0·3	57	1	2	0·63	+ 0·12	28·3	+ 1·8	37	+ 2	Cambridge.
b, South	a *Felixstowe*	*60*	*12th*	*44*	*10th*	*57·4*	*48·6*	*52·9*	+ *1·1*	*76*	*0*	*2*	*0·25*	—	*30·1*	—	*40*	—	*Felixstowe.*
	a Clacton-on-Sea ..	61	12th	45	8th, 10th	58·1	48·4	53·1	+ 1·3	78	0	2	0·25	—	29·9	—	39	—	Clacton.
	a Rothamsted ..	61	12th	37	12th	57·9	41·6	49·5	+ 0·1	54	1	3	1·03	+ 0·37	26·6	+ 0·3	35	0	Rothamsted.
	a *Shoeburyness* ..	*59*	*12, 13, 14th*	*44*	*8th, 10th*	*57·7*	*47·3*	*52·4*	− *0·2*	*73*	*0*	*1*	*0·27*	− *0·20*	*24·7*	—	*33*	—	*Southend.*
	p Tottenham	64	12th	41	10th, 12th	59·2	45·6	52·2	+ 1·8	71	0	1	0·13	—	21·9	—	29	—	Tottenham.
4. MIDLAND COUNTIES. — a, East	a Harrogate	60	11th	38	10th, 12th	54·5	39·9	47·0	− 1·3	44	6	0	0·00	− 0·71	23·2	—	31	—	Harrogate.
	a Bawtry	60	11th	31	11th	54·6	37·9	46·0	− 3·0	45	11	2	0·02	− 0·52	22·4	+ 1·9	30	+ 3	Worksop.
	p *Buxton* .. M	*61*	*13th*	*32*	*11th, 12th*	*53·5*	*36·8*	*44·9*	− *1·7*	*42*	*15*	*1*	*0·01*	− *1·06*	*29·2*	—	*38*	—	*Buxton.*
	a Nottingham ..	60	12th	36	11th, 12th	56·7	39·7	48·0	− 1·8	52	6	0	0·00	− 0·54	27·1	—	36	—	Nottingham.
	p Birmingham, Edgbsn	?62	12th	36	11th	56·8	42·0	49·2	0·0	50	0	0	0·00	− 0·58	16·0	—	21	—	Birmingham.
	a Raunds .. M	63	13th	35	11th	58·1	38·4	48·0	− 1·8	57	10	1	0·04	—	*	*	*	*	* *
	a Oxford	63	13th	38	10th, 12th	59·4	40·4	49·6	− 0·7	60	4	2	0·38	− 0·21	34·7	+ 9·5	46	+13	Oxford.
b, West	a Cheadle .. M	62	13th	37	10th	55·0	40·8	47·7	− 0·5	45	3	1	0·04	− 0·66	13·1	—	17	—	Sheffield.
	p Shrewsbury	60	8th, 13th	32	10th	56·2	37·6	46·6	− 3·6	51	12	0	0·00	—	*	*	*	*	* *
	a Hereford .. M	62	13th	33	11th	57·0	37·6	47·0	− 3·2	53	12	1	0·08	− 0·49	*	*	*	*	* *
	a Cirencester	63	13th	35	8th	57·8	42·0	49·7	+ 0·4	54	0	1	0·23	− 0·44	33·9	+ 9·2	45	+12	Cirencester.
	a Bath	67	13th	36	8th	62·0	40·7	51·0	− 0·5	68	4	1	0·03	− 0·63	44·1	—	58	—	Bath.
															27·4	—	*36*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	65	12th	39	8th	58·7	44·9	51·6	+ 0·7	67	0	2	0·30	− 0·28	18·8	− 5·1	25	− 7	Kew.
	a Marlborough ..	64	12th	32	8th	59·7	39·1	49·1	+ 0·3	62	8	0	0·00	− 0·65	32·5	+ 9·5	43	+13	Marlborough.
	a Margate	65	12th	47	12th	59·4	50·6	54·9	+ 2·2	90	0	4	0·72	+ 0·15	24·2	− 2·4	32	− 3	Margate.
	a Wisley, Surrey ..	67	12th	35	10th	58·2	40·3	49·0	− 2·4	56	5	1	0·13	—	26·7	—	35	—	Wisley.
	a Swarraton .. M	64	12th	35	8th	59·4	42·1	50·5	+ 0·9	60	0	1	0·03	− 0·73	43·2	—	56	—	Worthing.
	a Tunbridge Wells M	65	12th	40	8th, 12th	59·0	43·9	51·2	+ 0·8	64	0	1	0·24	− 0·52	33·6	+ 6·0	44	+ 8	Tunbridge Wells.
	a Dungeness	62	14th	43	8th, 9th	58·9	48·3	53·4	+ 0·1	80	0	5	0·80	+ 0·15	31·3	—	41	—	Littlestone.
	p Hastings	63	14th	45	8th	59·0	48·5	53·6	+ 0·7	81	0	6	0·22	− 0·60	*36·5*	+ *6·8*	*47*	+ *9*	*Hastings.*
	p Southampton ..	65	14th	39	8th	61·3	45·8	53·3	+ 0·9	79	0	0	0·00	− 0·74	36·5	+ 8·5	47	+11	Southampton.
	a Ventnor	64	12th	46	10th	60·5	50·9	55·6	+ 1·3	95	0	2	0·03	− 0·55	31·2	+ 1·0	41	+ 1	Ventnor.
															37·7	+ 8·9	49	+12	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*65*	*12th*	*42*	*8th*	*59·4*	*47·4*	*53·2*	+ *2·6*	*78*	*0*	*1*	*0·14*	− *0·43*	*15·3*	− *2·4*	*20*	− *3*	*Westminster.*
	a *Greenwich*	*68*	*12th*	*40*	*8th, 10th*	*59·9*	*44·7*	*52·1*	+ *0·5*	*71*	*0*	*1*	*0·29*	− *0·24*	*29·5*	+ *4·9*	*39*	+ *6*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	59	8th	30	10th	55·3	39·4	47·1	− 1·8	47	7	0	0·00	− 1·14	*	*	*	*	* *
	p Glasgow	55	8th	34	10th	52·7	40·0	46·2	− 2·0	38	6	0	‖ 0·01	− 0·76	16·4	− 1·0	22	− 1	Glasgow.
	p Rothesay .. S	58	8th	34	10th	54·6	40·0	47·1	− 2·1	44	6	1	0·01	− 0·98	*	*	*	*	* *
	a Kilmarnock	61	13th	26	10th	55·1	35·3	44·9	− 3·7	48	19	0	0·00	—	*30·5*	—	*40*	—	*Kilmarnock.*
	a Colmonell .. S	60	8th	28	10th	56·3	34·9	45·3	− 3·8	53	20	0	0·00	− 1·00	*	*	*	*	* *
	p Dumfries .. S	62	13th	32	11th	55·7	37·4	46·3	− 2·5	49	13	0	0·00	− 0·80	*27·1*	—	*36*	—	*Dumfries.*
	p Cally, Gatehouse S	60	13th	30	11th	56·9	35·6	45·9	− 2·2	54	18	0	0·00	− 1·07	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	58	13th	39	11th	55·1	43·6	49·2	− 0·7	50	0	0	0·00	− 1·03	33·6	+ 8·4	44	+11	Douglas.
															37·3	—	49	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	62	14th	35	11th, 12th	56·3	37·1	46·4	− 2·4	51	14	1	0·01	− 0·89	46·3	—	61	—	Aspatria.
	p Newton Rigg ..	64	13th	30	11th	57·1	34·6	45·5	− 2·0	56	21	1	0·01	− 0·84	42·3	+21·4	56	+28	Newton Rigg.
	p Stonyhurst	60	13th	35	11th	54·6	39·7	46·9	− 1·5	44	6	1	0·01	− 1·04	26·0	+ 4·1	34	+ 5	Stonyhurst.
	p Blackpool .. M	61	13th	34	10th, 11th	56·5	38·0	47·0	− 3·3	52	11	0	0·00	− 0·85	42·8	+20·0	56	+26	Blackpool.
	p M'nch'ster, Prestwich	68	13th	35	11th	58·4	40·6	49·2	0·0	56	4	0	0·00	− 0·89	*17·4*	+ *0·8*	*23*	+ *1*	*Prestwich.*
	a Liverpool (Bidston)	61	13th	40	10, 11, 12th	55·7	42·4	48·9	− 2·0	48	0	0	0·00	− 0·75	*28·0*	—	*37*	—	*Liverpool.*
	a Hawarden Bridge ..	59	13th	37	10th, 11th	56·3	39·9	47·9	− 3·3	50	6	1	0·01	− 0·64	*36·1*	+*14·3*	*48*	+*19*	*Southport.*
															45·0	—	*59*	—	*Rhyl.*
b, NORTH WALES	p Llandudno .. M	64	13th	37	10th	57·9	44·5	51·0	− 0·6	63	0	0	0·00	− 0·79	51·0	+28·9	67	+38	Llandudno.
	a Holyhead	63	13th	42	11th, 12th	57·7	45·1	51·2	− 0·6	64	0	0	0·00	− 0·84	38·7	—	51	—	Aberdovey.
	p Bettws-y-Coed ..	68	13th	32	10th	58·3	38·3	48·0	− 2·9	58	10	0	0·00	—	35·2	—	46	—	Bettws-y-Coed.
															38·7	—	51	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	65	13th	30	11th	57·8	37·3	47·3	− 1·1	57	13	2	0·02	—	35·3	—	46	—	Llangammarch Wells.
	a Pembroke	62	14th	41	10th	58·9	46·3	52·4	− 0·2	73	0	2	0·68	− 0·15	42·7	+16·9	56	+22	Pembroke.
	p Cardiff	63	13th	39	8th, 10th	58·2	43·1	50·4	+ 0·2	59	0	2	0·16	− 0·85	*44·5*	—	*59*	—	*Cardiff.*
															44·4	+*17·8*	*58*	+*23*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	64	13th	37	10th	59·9	44·5	52·0	+ 1·4	70	0	1	0·37	− 0·43	*39·4*	—	*52*	—	*Clifton.*
	a Shaftesbury .. M	64	13th	38	10th	58·1	43·9	50·8	+ 0·7	62	0	0	0·00	− 0·76	*	*	*	*	* *
	a Arlington	64	12th	36	8th	59·4	44·0	51·5	+ 1·7	67	0	0	0·00	− 1·40	37·0	+ 9·6	48	+13	Newquay.
	a Cullompton .. M	68	12th	35	8th	62·0	43·4	52·4	+ 1·8	73	0	3	0·11	− 0·68	32·9	+ 9·3	43	+12	Cullompton.
	a Portland Bill ..	63	14th	47	10th, 11th	60·0	50·1	54·9	+ 1·3	90	0	1	0·01	—	*35·9*	—	*47*	—	*Weymouth.*
	p Plymouth	67	12th	42	8th	61·2	47·9	54·4	+ 1·8	87	0	1	0·07	− 0·73	29·8	+ 3·6	39	+ 5	Plymouth.
	p Falmouth	60	13th	47	8th	58·0	51·4	54·6	+ 1·7	88	0	2	0·17	− 0·85	29·3	+ 1·7	38	+ 2	Falmouth.
															22·1	—	*29*	—	*Salcombe.*
															31·7	+ *4·2*	*41*	+ *6*	*Torquay.*
9. IRELAND, N. — a, West	a Malin Head	59	14th	35	11th	56·0	43·6	49·6	− 0·6	53	0	0	0·00	− 0·72	*	*	*	*	* *
	a Blacksod Point ..	58	13th, 14th	41	11th	55·4	45·6	50·4	− 0·8	59	0	0	0·00	− 1·12	*	*	*	*	* *
	p Markree Castle ..	62	14th	28	11th	58·0	38·0	47·7	− 0·9	57	11	1	0·08	− 0·83	20·7	− 0·4	27	− 1	Markree Castle.
	a Birr Castle	63	13th	32	11th, 12th	58·9	39·9	49·1	+ 0·5	59	6	3	0·05	− 0·58	*28·9*	+ *5·0*	*38*	+ *7*	*Birr Castle.*
b, East	p Armagh	61	13th	29	11th	56·3	37·7	46·7	− 2·1	51	12	1	0·01	− 0·59	14·3	− 7·5	19	−10	Armagh.
	a Donaghadee	65	12th	39	11th	56·4	44·4	50·2	0·0	57	0	0	0·00	− 0·62	*	*	*	*	* *
10. IRELAND, S. — a, East	p Dublin, City.. ..	58	13th, 14th	43	11th	56·3	46·8	51·4	+ 0·5	66	0	2	0·34	− 0·23	19·0	− 7·0	25	− 9	Phœnix Park.
	a Kilkenny	62	13th	34	11th	57·3	44·0	50·5	+ 0·7	60	0	2	0·37	− 0·28	*	*	*	*	* *
	a Waterford	60	13th, 14th	41	11th	57·7	46·1	51·7	+ 1·2	68	0	2	0·29	− 0·53	*	*	*	*	* *
	a Birr Castle	63	13th	32	11th, 12th	58·9	39·9	49·1	+ 0·5	59	6	3	0·65	− 0·58	28·9	+ 5·0	38	+ 7	Birr Castle.
b, West	a Foynes	62	13th	38	10th	57·6	44·7	51·0	+ 0·2	63	0	2	0·02	− 0·80	*	*	*	*	* *
	a Cahir .. .. M	61	13th, 14th	36	10th	56·9	44·7	50·6	− 0·1	60	0	1	0·44	—	*	*	*	*	* *
	a Killarney	65	12th	38	8th	60·6	44·4	52·3	+ 1·5	72	0	2	0·40	− 0·77	*	*	*	*	* *
	a Valencia	62	12th, 13th	42	8th, 10th	59·7	45·1	52·2	− 0·5	71	0	2	0·44	− 0·71	33·8	+ 9·1	45	+12	Valencia.
	a Roche's Point ..	59	8, 13, 14th	44	9th, 10th	57·6	48·7	53·0	+ 0·9	77	0	4	0·52	− 0·33	14·0	—	18	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	60	8th, 12th	49	9th, 10th	58·1	50·7	54·3	− 0·4	86	0	3	0·47	− 0·29	27·7	− 1·5	36	− 2	Scilly.
	a Jersey, St. Aubins ..	66	12th	46	10th, 11th	61·3	49·6	55·3	− 0·2	93	0	3	2·53	+ 1·60	33·7	+ 2·1	44	+ 3	St. Heliers.
	a Guernsey	67	12th	47	8th	62·4	52·6	57·4	+ 2·4	108	0	1	0·11	− 0·83	30·1	+ 0·9	39	+ 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 46·1 hrs.* (+*16·5 hrs.*), *60* % (+*22* %); *Bournemouth, 35·2 hrs., 46* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	49·7	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	50·5
	Crathes	6	21	45·6	51·4
	Balmoral	5	20	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	1	29	46·9	—
2.	Cockle Park	2	28	46·6	50·2
	Durham	1	28	—	—
	York	—	—	51·6	54·4
	Hull	2	28	49·4	53·7
	Lincoln	—	—	49·5	53·5
	Rauceby	1	28	51·2	55·7
3.	Norwich	1	30	—	—
	Yarmouth	—	—	52·9	56·7
	Lowestoft	0	41	52·8	56·2
	Cambridge	0	31	50·8	56·1
	Clacton-on-Sea ..	0	39	53·5	55·8
	Southend	0	37	54·7	—
	Tottenham	0	35	—	58·5

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	32	49·4	51·7
	Huddersfield ..	1	30	48·3	53·5
	Buxton	4	29	49·3	53·2
	Sheffield	0	32	49·6	53·4
	Nottingham.. ..	0	31	49·4	54·6
	Birmingham.. ..	3	24	49·1	52·9
	Oxford	0	—	—	—
	Hereford	6	21	—	—
	Cirencester	0	33	51·3	54·8
	Bath	—	—	—	—
5.	Margate	0	37	53·3	55·7
	Greenwich	0	31	—	—
	Westminster ..	0	35	—	—
	Kew	1	27	50·1	55·3
	Canterbury	0	33	52·3	56·8
	Tunbridge Wells ..	0	31	52·1	—
	Wisley	4	25	50·3	55·6
	Worthing	0	37	53·1	57·5
	Portsmouth	0	33	53·2	57·4
6.	Glasgow	4	23	—	—
	Rothesay	—	—	—	51·0
	Colmonell	2	26	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	
6.	Dumfries	1	30	48·6	53·4
	Douglas	0	34	—	—
7.	Aspatria	4	28	47·5	52·2
	Newton Rigg ..	6	25	49·6	52·1
	Burnley	4	27	47·8	52·8
	Southport	3	27	47·4	53·7
	Manchester City ..	0	34	49·2	55·9
	Bettws-y-Coed ..	0	31	47·9	52·6
8.	Llangammarch Wells	6	17	49·9	53·7
	Cardiff	0	32	51·4	55·6
	Clifton	0	33	—	—
	Plymouth	0	33	54·6	—
9.	Armagh	3	26	50·0	53·6
	Markree	3	24	52·0	54·6
10.	Dublin, Trin. Coll. ..	2	30	52·2	54·4
11.	Guernsey, Brooklyn	0	39	55·8	59·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	—	—	—
	Kirkwall	46	46	46·0
	Wick	52	52	52·0
SCOTLAND E.	Cromarty	51	49	50·3
	Pennan Bay	51	49	50·2
	Aberdeen, Cove Bay ..	52	52	52·0
ENGLAND, N.E.	Burnmouth, Berwick ..	49	49	49·0
	Scarborough	54	46	50·7
ENGLAND, E.	Shipwash Lightship ..	58	56	56·7
	Margate‡	56	54	54·8
ENGLAND, S.E.	Eastbourne‡	56	55	55·6

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	53	51	52·7
	Ballantrae	54	44	49·2
ENGLAND, N.W.	Port Erin	56	54	54·7
ENGLAND, S.W.	Newquay	58	57	57·8
	Scilly	55	53	54·2
	Plymouth‡	57	56	56·7
	Salcombe	59	57	57·8
IRELAND, N.W.	Sheephaven	54	50	52·9
	Teelin	56	52	54·0
IRELAND, S.W.	Cleggan	57	47	51·8
	Seafield	58	52	54·5
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution o temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

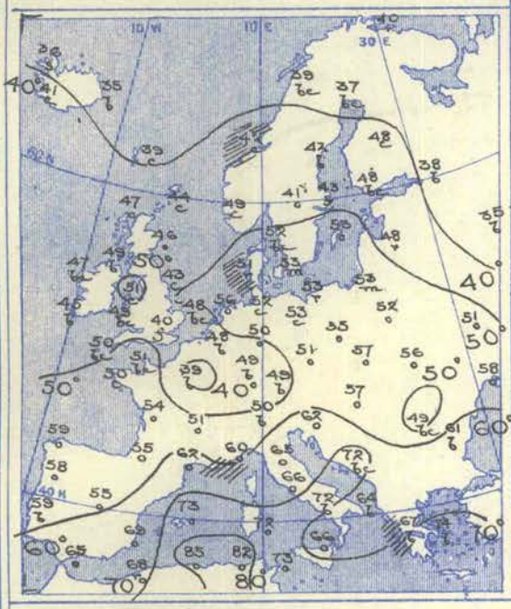
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

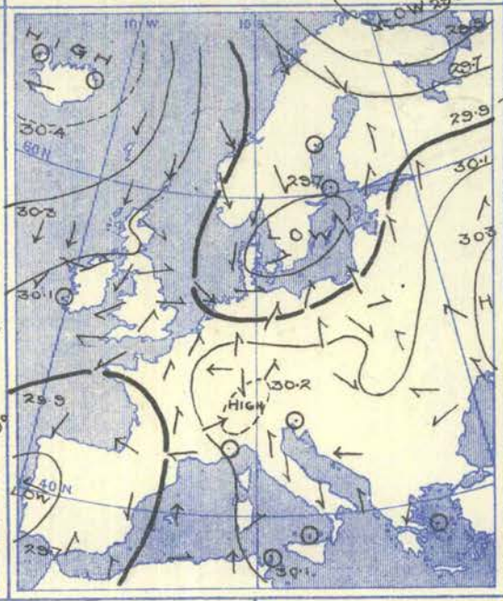
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

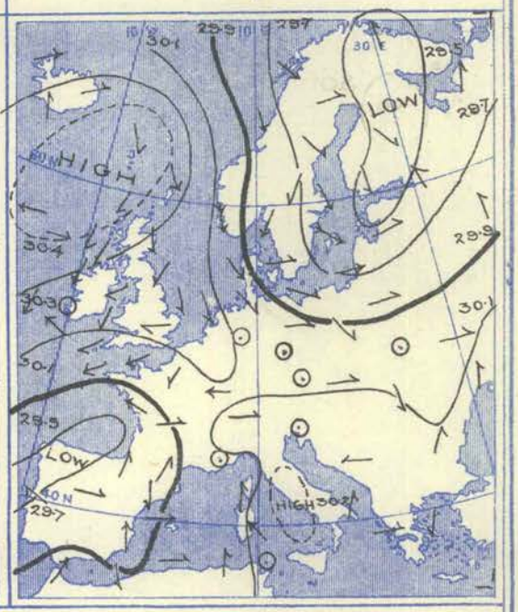
Sunday, 8th October, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning cloudy to overcast in the major portion of our area, with rain in places over the Baltic region as well at a few stations elsewhere. Some rain later in France, the Spanish Peninsula, Switzerland and Russia, and very slight quantities in Scotland.

Temperature fallen as a whole. Morning readings ranging from 85° at Algiers, 82° at Cape de Garde, and above 70° at some other places in the extreme south to blow 50° very generally in the north and north-west of our area, and to below 40° at some stations. Maxima during day below 60° at almost all our own stations, about 70° in Austria, and above 80° at a few places in the extreme south of our area. Thermometer touching 88° in Greece, 97° at Tunis, and 99° at Cape de Garde.

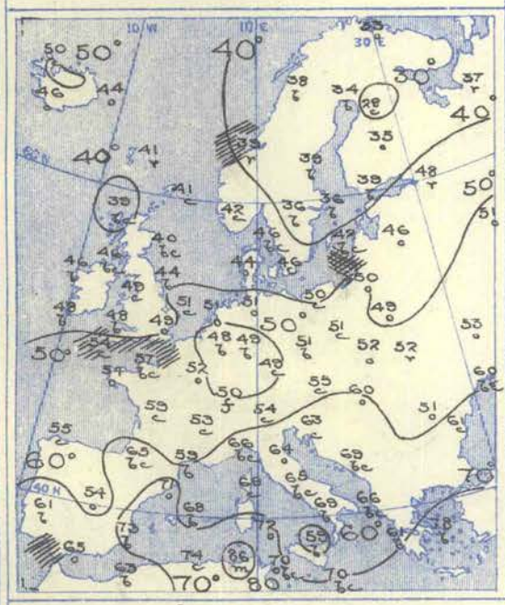
Wind in morning showing two complete cyclonic circulations, but light or moderate in force generally. A high wind from the South-Eastward prevailing at Toulouse and from South at San Fernando. A fresh North-Easterly breeze blowing in the Hebrides. Increasing to a gale by evening over the south of Scandinavia, and becoming stronger from various points over the Bay of Biscay and the Spanish Peninsula. Increasing to a high wind from East-North-East at Lorient and from South at Alicante.

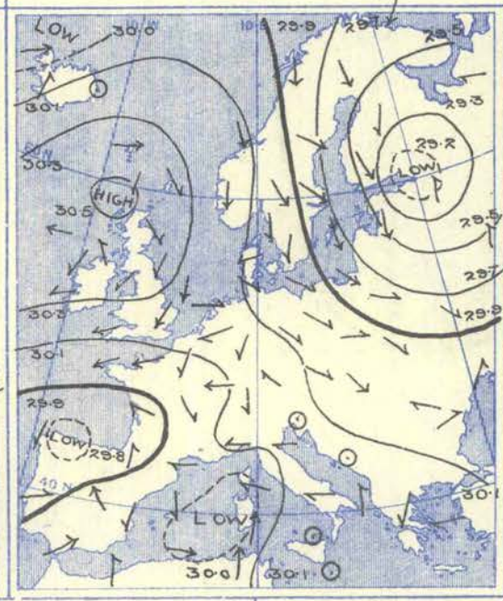
Barometer in morning above 30·4 in. in Iceland and its vicinity, and very little lower in central Russia. Below 29·3 in. in the extreme north of Scandinavia and below 29·7 in. in a depression over Denmark and the south of Sweden, and also in Portugal. Anticyclone moving in a South-Easterly direction during day, and pressure decreasing again in Iceland. Depressions extending or moving North-Eastwards. Gradient growing much steeper over Scandinavia and Denmark.

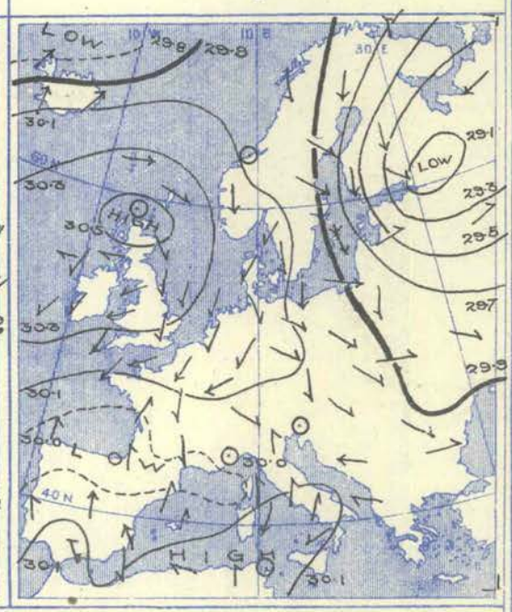
Monday, 9th October, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning cloudy to overcast over a large area in central Europe and Russia, and also in a few other regions, with rain at Le Mans, Christiansund, and at some stations farther east; fair to fine elsewhere. Moderate or slight rain experienced later in various parts of the Continent. Thunderstorms over the southern half of France, with 1·4 in. of rain at Clermont. Rain during day on the south coast of Kent.

Temperature fallen in most places. Morning readings ranging from 28° at Kuopio and below 35° at some other northern stations to about 50° in southern England and over a large area on the Continent to above 60° on the Mediterranean generally, to above 70° in some localities, and to 86° at Cape de Garde. Maxima during day below 55° over a considerable portion of these Islands, the Netherlands and North Germany, above 70° in the south of France and above 80° at several stations in the south of our area. Thermometer rising to 95° at Cape de Garde and to 106° at Tunis. Frost at night in the north-east of Scotland.

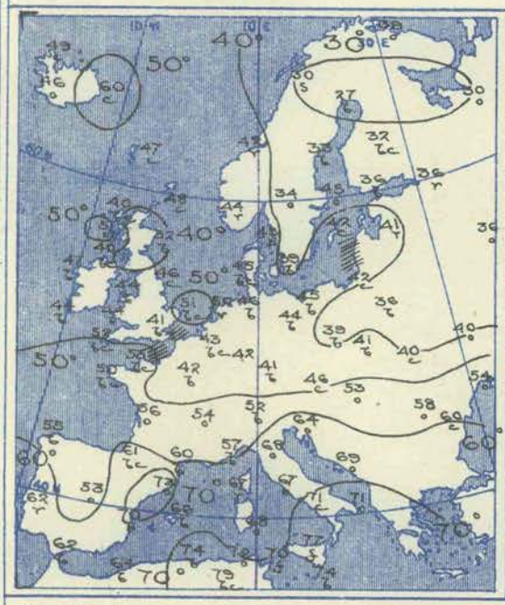
Wind in morning mainly cyclonic except in the north-west of our area. Light or moderate in force generally, but Northerly current fresh to strong over Scandinavia and the Baltic, with a gale at Wisby. A fresh to strong breeze from the North-Eastward prevailing on the English Channel. No change of importance during day; continuing strong to a gale in Scandinavia and force increasing considerably in Finland and over the Gulf.

Barometer in morning above 30·5 in. in an anticyclone centred near the Hebrides; below 29·2 in. in a large depression having its minimum near St. Petersburg, and relatively low in other systems in the south and south-west of Europe. Anticyclone moving slowly in a South-Easterly direction during day and pressure giving way in Iceland. Main depression travelling a little in an Easterly direction, and those in the south and south-west partly dispersing.

Tuesday, 10th October, 1911.

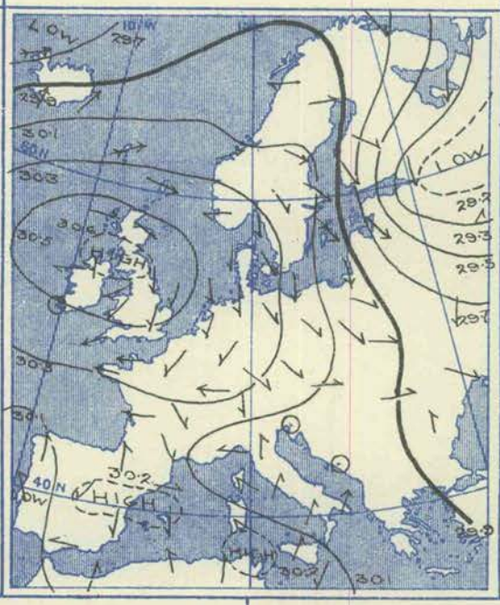
Temperature and Weather.

7 a.m.

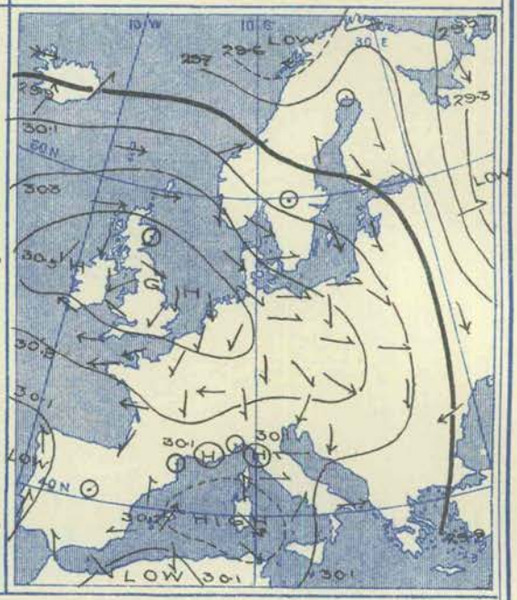


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning mostly cloudy or overcast over the northern countries and in many parts of these Islands, with rain at Spurn Head, Dungeness and the Helder, as well as at some stations in Norway and Finland. Snow falling at Bodö and rain at Nicolaieff. Generally fair to bright over the southern countries and the Mediterranean. Slight rain later in Russia and Sweden, and heavy amounts in the north-west of Norway; as much as 1·7 in. at Christiansund. About 0·4 in. falling at Bucharest.

Temperature fallen generally. Morning readings below 40° in Scotland and over a large area in the north of the Continent; as low as 32° at Nairn and Aberdeen, and 27° at Haparanda. Above 60° at most stations in the south of Europe and on the Mediterranean, and above 70° at a few places; as high as 77° at Palermo. Maxima during day between 55° and 60° in most parts of the United Kingdom, the Netherlands, northern France and a considerable portion of central Europe, but lower in Germany. Thermometer rising to above 70° in the south of Europe; 81° at Barcelona and 88° at Brindisi.

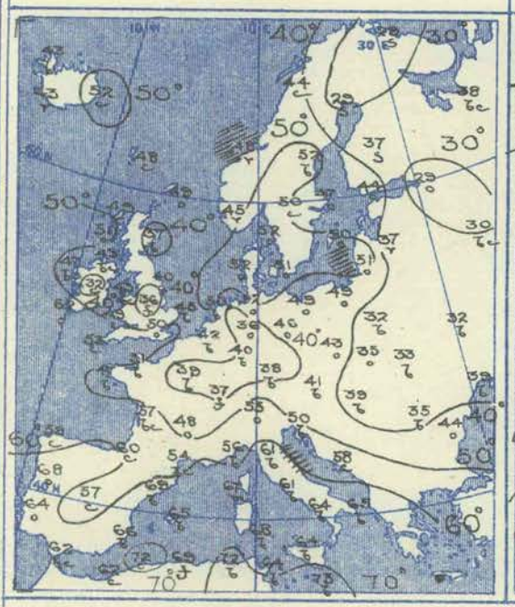
Wind in morning showing an anticyclonic movement over our Islands and a large area surrounding; North-Easterly current fresh to strong on the Channel. A Southerly to South-Westerly wind, strong to a gale, prevailing in Iceland. Strong winds or gales from the Northward (cyclonic) general over northern Russia, Finland and the Baltic; light and rather variable airs over the Spanish Peninsula and the Mediterranean. No general change later in day; a considerable decrease in force taking place over northern and north-eastern Europe.

Barometer in morning above 30·6 in. in the south of Scotland and the adjacent parts of England and Ireland, in the centre of a large high pressure system. Below 29·2 in. in an equally large depression over the northern parts of Russia; below 29·7 in. to the northward of Iceland, and below 30·0 in. between Spain and Madeira. Depression in extreme north apparently travelling Eastward to the north of Norway during day, but very little change taking place in the general distribution of pressure.

Wednesday, 11th October, 1911.

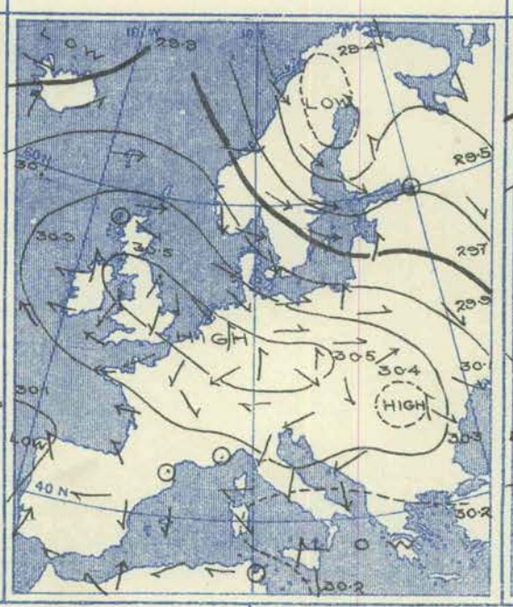
Temperature and Weather.

7 a.m.

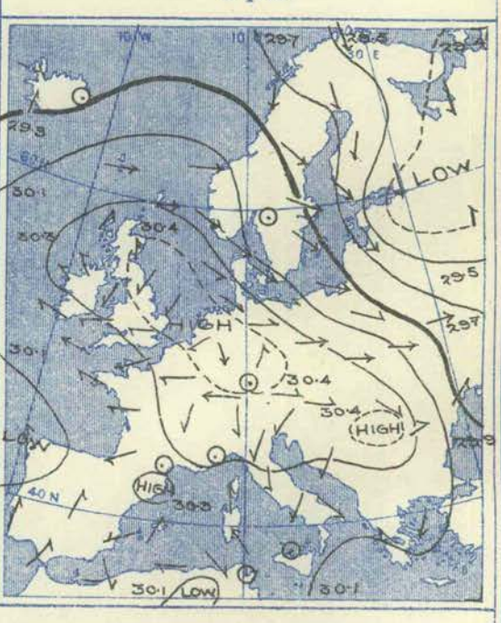


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine in many parts of these Islands and over a large area in southern and central Europe; generally overcast in the north, with rain in Norway, at Helsingfors and Riga, and snow in the extreme north. Rather heavy rain later at Christiansund and slight falls in Russia.

Temperature changed irregularly in these Islands, fallen at most places on the Continent. Morning readings ranging from 73° at Malta, 72° at Oran, and 69° at Barcelona to below 50° over the major portion of our area and to below 32° at Vardö and in a considerable district in Russia. Maxima during day 88° at Tunis, 82° at Bilbao, about 80° at a few other southern stations and above 70° in many localities. About 60° in some parts of this country, and 55° in central Europe. Frost continuing all day at Haparanda.

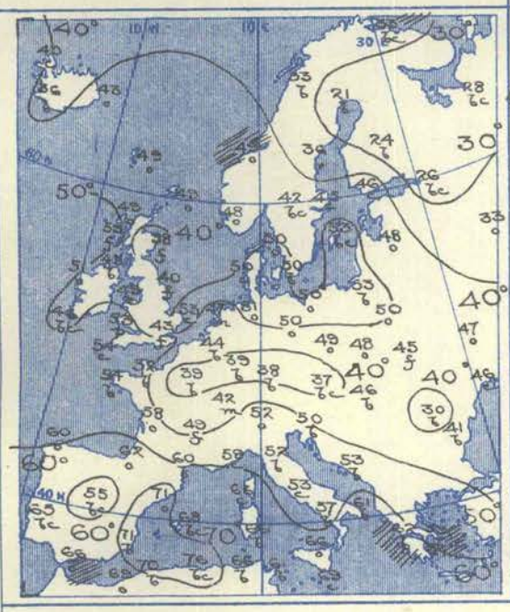
Wind in morning moderate to strong from the North-Westward in Scandinavia, Denmark and on the Baltic, moderate to fresh or strong from the Eastward in the north of Italy, Brittany and on the English Channel. An anticyclonic movement shown over these Islands and central Europe. No change of importance during day.

Barometer in morning above 30·5 in. in an anticyclone extending from Scotland to Austria. Below 29·4 in. in a depression centred over the north of Scandinavia, and relatively low on the ocean between Portugal and the Azores. High pressure system decreasing somewhat in intensity during day, and Atlantic low pressure beginning to encroach on France and our south-west coasts. Depression in north moving in a South-Easterly direction.

Thursday, 12th October, 1911.

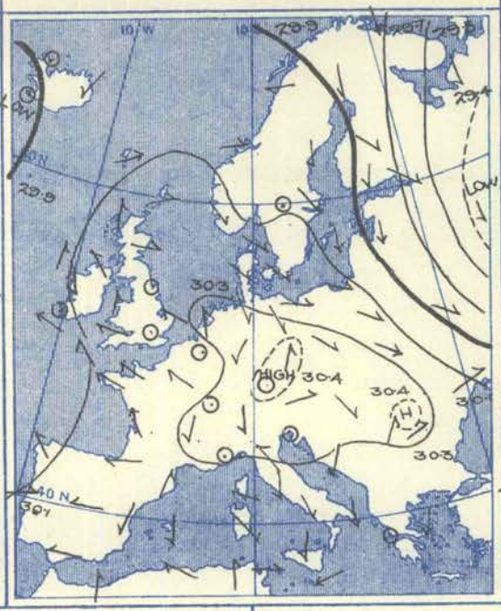
Temperature and Weather.

7 a.m.

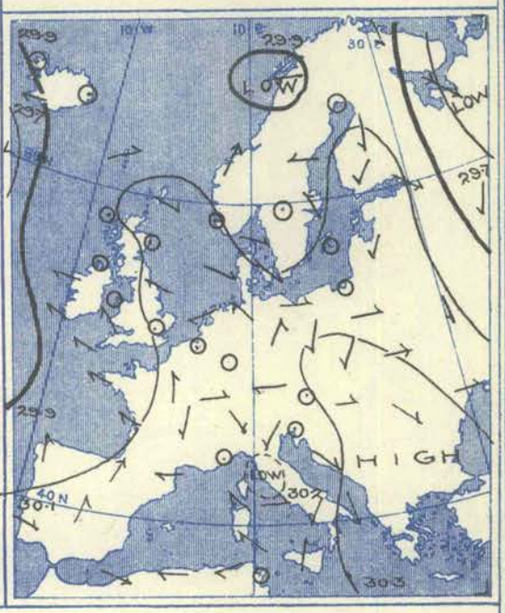


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over a large area in the south and in a few other localities, but mostly cloudy or overcast. Rain falling at Hernösand and showers prevalent at Pembroke. Slight rain experienced later in various regions, and a good deal of mist and fog in these Islands.

Temperature changed rather irregularly; fallen very briskly in the north of the Continent. Morning readings ranging from below 25° in the northern parts of Finland and Sweden to about 40° in South Germany, above 60° at many places on the shores of the Mediterranean, and to 76° at Algiers. Maxima during day above 60° in many parts of this country, and between 70° and 80° over a large area in the south of the Continent; thermometer touching 82° at Palermo. Frost continuing throughout at Haparanda.

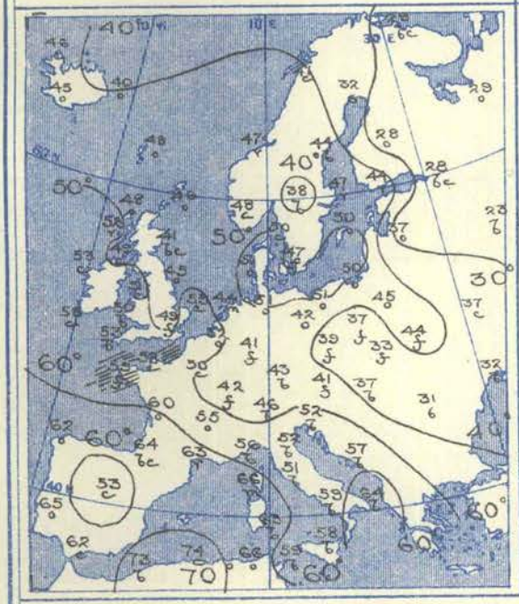
Wind in morning varying a good deal locally, but main current between South-East and South over the United Kingdom and between North and North-West over the eastern half of our area. A gale from the Northward prevailing at Vardö and a high wind from that quarter at Brindisi. Gale subsiding at Vardö by evening, but a gale from North-West setting in at Archangel.

Barometer in morning above 30·4 in. in a very large high pressure system centred over Bohemia and Bavaria; below 29·4 in. in central Russia, and below 29·9 in. far out on the Atlantic. Atlantic low pressure spreading very gradually Eastward over these Islands during day, but no great modification occurring in the general distribution of pressure.

Friday, 13th October, 1911.

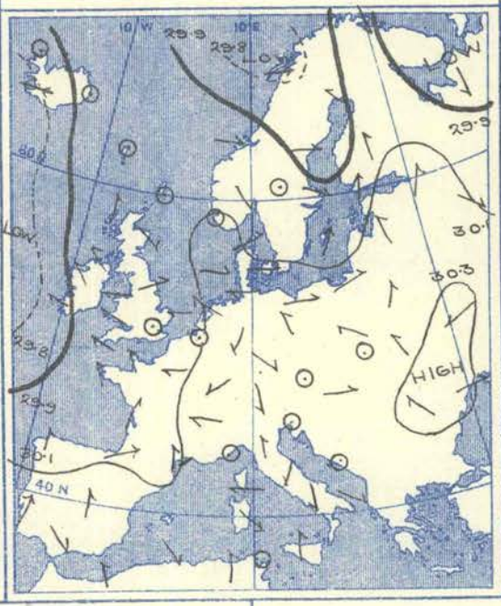
Temperature and Weather.

7 a.m.

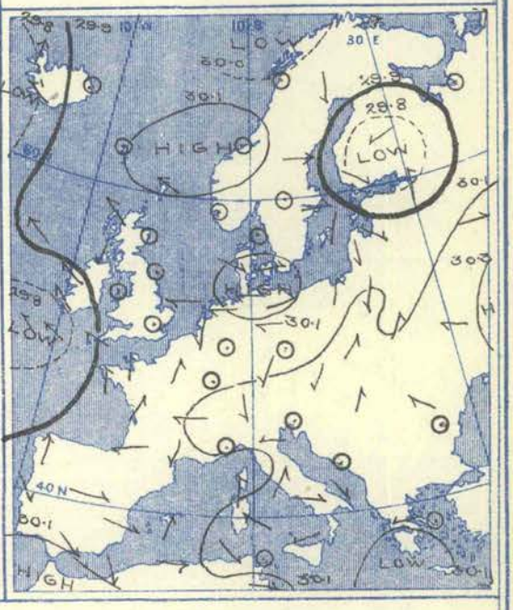


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning mainly cloudy or overcast, with a good deal of mist and fog, over the northern half of our area, with rain in several localities; generally fair to fine in the south, but rainy at Oporto and Perpignan. Rain experienced later in several parts of these Islands, France, the Netherlands and Russia. As much as 1·0 in. at Dover, and 2·4 in. at Jersey; at the latter station thunder and lightning occurred early in the day.

Temperature fallen in Russia, risen in most other regions. Morning readings ranging from 74° at Algiers and above 60° at several other places in the south to below 32° over a wide area in the east and north of Europe, and to 23° at Moscow. Thermometer rising to nearly 70° at some Welsh stations during day and to above 65° at several of our other stations. Maxima above 70° at many places in southern Europe, and slightly above 80° in various parts of Algeria. Maxima below 60° in almost all parts of Germany and at Vienna.

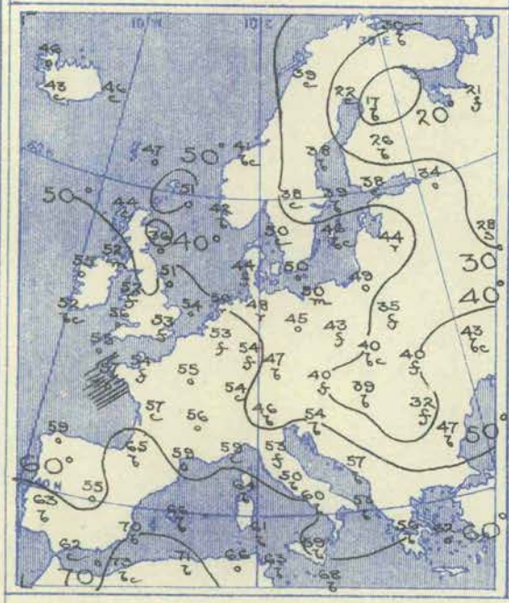
Wind in morning very light in almost all parts of our area and rather variable in direction. Mainly between East and South-East in these Islands and France. A gale from East prevailing in the south-west of Iceland. A well marked cyclonic circulation setting in over Finland and northern Russia later, but no important change occurring as a whole.

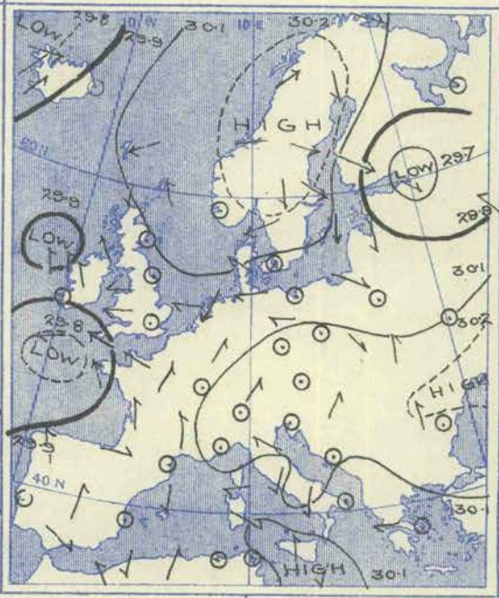
Barometer in morning above 30·3 in. in a very large high pressure of irregular form centred over Transylvania; below 29·8 in. in the far north-west of Norway, and below 29·7 in. in a depression some distance to the westward of Ireland. Atlantic depression moving more to the east during day, and that in the north-west of Norway travelling to Finland. Anticyclonic system undergoing considerable modification in form, but little in intensity.

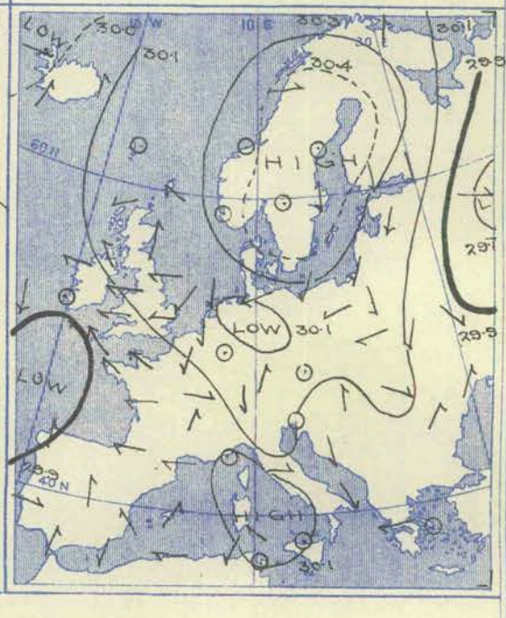
Saturday, 14th October, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning very cloudy or entirely overcast in most parts of these Islands and their neighbourhood, with rain in a few places. Overcast in most Russian localities, with snow at Moscow and rain at Riga. Fair to bright in the south of Europe and on the Mediterranean. Slight rain falling later in various parts of the United Kingdom and slight or moderate amounts in France and at several stations in Germany, the Netherlands and northern Europe. A thunderstorm occurring at Brest.

Temperature changed irregularly; risen in most parts of the United Kingdom. Morning readings ranging from 17° at Uleaborg and below 32° over a large area in the north-east to about 53° in these Islands and the greater part of Italy, and to 72° at Oran. Maxima during day a few degrees above 70° at many stations in the south of our area and above 75° in some parts of Spain. Below 60° in nearly all parts of Germany and at Vienna and Prague, and no higher than 61° at Trieste. Thermometer rising to 60° or rather above at several stations in England and in the south-west of Ireland.

Wind in morning variable over the central and southern regions, anticyclonic over Scandinavia, mainly cyclonic elsewhere, but everywhere light or moderate in force except over the Gulf of Finland. No change of importance later in day, but force falling light over the Gulf of Finland.

Barometer in morning above 30·2 in. over Scandinavia and also in the south of Russia; below 29·8 in. in a depression centred off the south-west coast of England, and below 29·7 in. in another disturbance having its minimum near St. Petersburg. Russian disturbance moving Eastward during day, and barometer rising briskly in its rear. Anticyclone over northern Europe increasing in intensity and expanding in all directions.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
1	1911. October 9th, 10.20 a.m. to 11.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	286° 80% 45°, 7	284·5° 80% 45°, 11	282° 85% 45°, 11					278·5° 90% 45°, 10 Metres. 1,000	Clear. The wind fell off rapidly above 1,000 m., so that no rise could be got when winding in.

APPARATUS USED IN THE KITE OR BALLOON ASCENT.

No. of Ascent.	1
No. of Kites	1
Area of Surface (sq. metres) ..	7
Capacity of Balloon (cub. metres) ..	—
Length of Wire (metres)	1,700

South Kensington, London, S.W. *October 19th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 42. FORTY-SECOND WEEK, SUNDAY, OCTOBER 15TH, TO SATURDAY, OCTOBER 21ST, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. The conditions were at first generally fair, but afterwards became unsettled, with occasional rain in all districts. A good deal of mist or fog was experienced in England about the middle of the week. Thunderstorms occurred at a few places in the east and south-east of England on Saturday night, and thunder at Roche's Point. Aurora was observed at Fort William on the 17th.

Temperature was much above the normal, the excess being about 6° in many English districts, and more than 7° in Ireland. The highest of the maxima were registered during the latter half of the week at most stations, and ranged from 68° in the English Channel, 67° in England S.E., and 66° in several other parts of England and also in Scotland W. and Ireland S., to 62° in England N.E. and Scotland N., and to 61° in Scotland E. The lowest of the minima, which were mostly recorded during the earlier part of the period, ranged from 30° in Scotland E. and 32° in Scotland N. to 48° in Ireland S. and to 52° in the English Channel. Late in the week the minimum readings were unusually high for the time of year; at some English and Irish stations the thermometer did not fall below 55°. The lowest grass readings recorded were 26° at Crathes and Glasgow, 27° at Balmoral, and 30° at Newton Rigg.

Mean Temperature of the Sea. On many parts of the south-west coasts the water was warmer than during the corresponding week of last year, but elsewhere it was somewhat colder. The means for the week ranged from 58° at Newquay and Salcombe, and 57° at Eastbourne and the Shipwash Lightship, to 49° at Burnmouth and to 46° at Kirkwall.

Rainfall was less than the average over the greater part of the Kingdom, but slightly above it in England S.E., Scotland W. and Ireland N. and considerably in excess in Ireland S. An inch fell at Waterford and 1·5 inch at Greystones, Co. Wicklow, on the 20th, and more than an inch at some places in the south-east of England on the 21st; at Brighton there was as much as 1·7 inch, at Colmonell on the same day there was 1·2 inch.

Bright Sunshine was less than the normal in all districts. The percentage of the possible duration ranged from 26 in Ireland N., 24 in Scotland N. and the English Channel, and 23 in England S.E., to 10 in England N.E. and to 9 in the Midland Counties.

Barometer and Wind. A gradual but very decided change in the pressure distribution occurred during the week. In the opening days an anticyclone lay over northern and the eastern portion of central Europe, while a shallow depression covered the Bay of Biscay and its neighbourhood. The wind was consequently from the Eastward over the United Kingdom, and its force light or moderate to fresh. After Tuesday the depression spread northwards towards Ireland, and the wind became South-Easterly over the western and northern parts of the Kingdom. On Friday a small depression passed from west to east across England, causing a gale in the south-west, and on Saturday a large disturbance, which had developed great intensity on approaching Ireland, was moving steadily across that country. As the high pressure had given way in Scandinavia the wind in these islands was mainly Southerly, and either on Saturday or during the night it blew very strongly on our south-western and southern coasts, reaching the force of a gale in several places, and of a whole gale at Scilly.

THE WEEK.

For explanation of the terms "Unusual, &c., *see* p. 332.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Moderate	Light	Light	Moderate	Moderate	Moderate	Light	Moderate	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 7 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 2	2 * 1	2 * 1	3 * 1	2 * 2	3 * 2	2 * 2	2 * 2	3 * 2	2 * 2	2 * 2	4 * 1
	Rainfall ...	2 * 4	0 * 3	2 * 3	1 * 2	0 * 2	0 * 2	0 * 4	2 * 4	1 * 4	0 * 4	2 * 3	3 * 1
	Sunshine ...	2 * 1	3 * 1	3 * 1	4 * 1	3 * 1	5 * 1	2 * 2	4 * 1	3 * 2	2 * 1	1 * 2	1 * 3

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10077 / 450 Wy. & S., Ltd 10–11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-SECOND WEEK—October 15th to October 21st, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	62	32	54·6	42·1	48·2	+ 2·6	43	+ 8	0	− 9	3	− 2	0·29	− 0·81	17	− 1	24	− 1
Eastern																		
1. SCOTLAND, EAST	61	30	54·5	42·8	48·5	+ 3·1	46	+ 9	0	−11	4	0	0·51	−0·15	9	− 11	13	−15
2. ENGLAND, N.E.	62	41	55·0	48·1	52·0	+ 4·5	70	+ 27	0	− 5	4	0	0·31	−0·43	7	− 14	10	−19
3. ENGLAND, EAST	66	38	59·2	49·8	54·3	+ 6·0	86	+ 35	0	− 6	3	− 1	0·32	−0·33	15	− 8	21	−11
4. MIDLAND COUNTIES	66	40	57·2	48·8	52·9	+ 5·7	76	+ 30	0	− 8	5	+ 1	0·60	−0·06	7	− 14	9	−20
5. ENGLAND, S.E.	67	43	60·3	52·2	56·2	+ 6·5	99	+ 41	0	− 4	4	+ 1	0·80	+0·07	17	− 7	23	−10
Western																		
6. SCOTLAND, WEST	66	38	56·6	47·7	52·0	+ 4·9	70	+ 27	0	− 7	4	0	1·05	+0·03	12	− 7	16	−10
7. ENGLAND, N.W.	66	37	57·8	49·3	53·5	+ 5·2	81	+ 33	0	− 4	4	+ 1	0·48	−0·38	15	− 4	20	− 6
8. ENGLAND, S.W.	66	46	59·8	52·5	56·0	+ 6·3	98	+ 40	0	− 3	4	0	1·00	−0·01	14	− 9	19	−13
9 IRELAND, NORTH	65	47	59·0	51·5	55·1	+ 7·6	92	+ 47	0	− 5	4	0	0·87	+0·06	19	− 2	26	− 3
10. IRELAND, SOUTH	66	48	59·6	52·6	56·0	+ 7·1	98	+ 44	0	− 4	5	+ 1	1·36	+0·48	14	− 9	20	−12
11. ENGLISH CHANNEL	68	52	61·5	54·6	57·9	+ 4·7	111	+ 33	0	0	3	− 2	0·63	−0·29	18	− 10	24	−14

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 7 Weeks, September 3rd to October 21st, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	68	29	*	*	*	*	376	− 20	10	−11	27	− 7	4·40	−3·54	147	− 1	25	0
Eastern																		
1. SCOTLAND, EAST	77	23	*	*	*	*	413	− 12	31	+ 5	20	− 8	2·05	−2·28	191	+ 17	33	+ 3
2. ENGLAND, N.E.	89	31	*	*	*	*	533	+ 33	4	− 6	22	− 3	2·88	−0·86	230	+ 35	40	+ 6
3. ENGLAND, EAST	93	33	*	*	*	*	664	+ 93	0	−13	20	− 4	3·02	−0·66	261	+ 46	45	+ 8
4. MIDLAND COUNTIES	94	30	*	*	*	*	569	+ 48	8	−10	20	− 4	2·59	−1·25	229	+ 38	39	+ 7
5. ENGLAND, S.E.	91	29	*	*	*	*	694	+ 66	1	− 7	19	− 4	3·29	−0·96	292	+ 73	50	+13
Western																		
6. SCOTLAND, WEST	70	26	*	*	*	*	460	− 7	15	+ 1	20	− 8	3·53	−3·59	199	+ 21	34	+ 4
7. ENGLAND, N.W.	85	30	*	*	*	*	547	+ 18	6	0	20	− 6	4·71	−0·76	234	+ 53	40	+ 9
8. ENGLAND, S.W.	91	28	*	*	*	*	668	+ 77	0	− 5	21	− 6	3·76	−2·14	244	+ 35	42	+ 6
9. IRELAND, NORTH	73	28	*	*	*	*	521	+ 32	1	− 7	22	− 9	2·87	−2·69	196	+ 28	34	+ 5
10. IRELAND, SOUTH	82	32	*	*	*	*	588	+ 39	0	− 7	23	− 4	4·88	−0·31	215	+ 17	37	+ 3
11. ENGLISH CHANNEL	89	45	*	*	*	*	846	+110	0	0	22	− 7	5·13	+0·09	262	+ 4	45	+ 1

THE YEAR.—Aggregates, &c., for the Period of 42 Weeks, January 1st to October 21st, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	84	14	*	*	*	*	2132	+182	425	−153	171	−23	36·15	−3·20	1163	+131	30	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2372	+177	523	−123	145	−16	17·36	−6·54	1363	+137	35	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2897	+447	375	−110	125	−20	15·77	−3·43	1468	+139	38	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3350	+519	409	−125	123	−17	14·67	−3·92	1673	+230	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3192	+435	423	−128	108	−31	12·90	−7·70	1462	+173	38	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3421	+374	362	− 27	107	−26	14·64	−5·72	1798	+335	47	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2672	+302	362	− 77	146	−22	28·14	−7·83	1437	+177	37	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	2973	+377	320	− 72	126	−28	21·84	−4·84	1565	+287	41	+ 8
8. ENGLAND, S.W.	91	13	*	*	*	*	3274	+391	297	− 9	119	−33	20·79	−7·76	1682	+256	44	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2712	+236	303	− 50	142	−41	20·66	−8·76	1389	+230	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3163	+328	295	+ 29	150	−12	24·29	−6·08	1480	+174	39	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3705	+383	135	+ 26	125	−37	19·46	−4·26	1871	+137	49	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*55*	*19th*	*47*	*17th*	*52·3*	*48·2*	*50·2*	—	*57*	*0*	*3*	*0·36*	—	*12·9*	—	*19*	—	*Baltasound.*
	a Lerwick	53	15, 16, 19th	43	17th, 18th	52·3	44·1	48·1	+ 2·4	43	0	1	0·22	—	9·3	− 9·1	13	−13	Deerness.
	a Stornoway	62	15th	40	15, 17, 18th	56·3	43·0	49·5	+ 3·6	53	0	3	0·37	− 0·91	16·1	− 2·9	23	− 4	Stornoway.
	a Castlebay, Barra Isd.	*57*	*15th*	*50*	*15, 18, 19th*	*55·3*	*50·9*	*53·0*	*+ 5·0*	*77*	*0*	*3*	*1·09*	—	*14·1*	—	*20*	—	*Castlebay.*
b, Mainland.	a Wick	53	15,16,18,20,21	38	15th	52·7	45·6	49·1	+ 2·8	50	0	3	0·46	− 0·27	*	*	*	*	* *
	p Strathpeffer	55	17th	33	18th	52·8	39·1	45·8	+ 0·5	39	8	3	0·17	− 0·49	24·1	+ 4·1	34	+ 6	Strathpeffer.
	p Glencarron	62	15th	35	20th	56·8	39·4	47·8	+ 3·2	52	7	3	0·19	− 1·94	*	*	*	*	* *
	p Fort Augustus	60	17th	32	18th	54·0	39·6	46·6	+ 0·8	42	7	3	0·23	− 0·73	17·7	+ 3·8	25	+ 5	Fort Augustus.
	p Fort William	62	17th	39	18th	57·4	43·9	50·5	+ 3·4	69	0	3	0·37	− 1·36	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	61	15th	35	15th	57·0	41·1	48·8	+ 1·9	51	3	3	0·16	− 0·61	*25·3*	—	*36*	—	*Gordon Castle.*
	a Nairn	59	17th	30	18th, 19th	54·0	35·1	44·3	− 1·9	45	19	3	0·27	− 0·27	21·3	—	30	—	Nairn.
	a Aberdeen	59	15th	35	15th	54·3	46·4	50·2	+ 3·3	57	0	3	0·45	− 0·21	8·4	−13·9	12	−20	Aberdeen.
	a Balmoral S	59	15th	31	15th	55·6	37·9	46·5	+ 3·7	49	11	4	0·40	− 0·45	7·3	—	10	—	Crathes S.
	p Crieff S	55	15th	44	15th	52·3	46·3	49·2	+ 2·4	50	0	5	1·25	+ 0·38	6·2	—	9	—	Balruddery.
	a Leith	58	21st	40	15th, 16th	54·6	45·7	50·0	+ 1·8	56	0	4	0·51	+ 0·03	*	*	*	*	* *
	p West Linton S	57	17, 18, 20, 21	37	15th	54·4	44·3	49·2	+ 4·0	50	0	3	0·33	—	*10·4*	—	*14*	—	*West Linton.*
	p Marchmont S	57	18th	42	15th	53·4	45·7	49·4	+ 3·8	52	0	4	0·70	− 0·12	2·5	−17·0	4	−24	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle	57	20th, 21st	43	15th	54·1	46·8	50·3	+ 3·1	58	0	3	0·47	− 0·37	2·4	—	3	—	Cockle Park.
	a Shields	58	20th	43	15th, 16th	54·7	46·9	50·7	+ 2·8	61	0	6	0·47	− 0·23	*2·4*	*−13·6*	*3*	*−19*	*Newcastle.*
	p Durham	59	21st	45	15th	54·9	47·0	50·8	+ 3·8	62	0	3	0·27	− 0·47	3·5	−16·5	5	−23	Durham.
	p Rounton M	61	18th	41	15th, 19th	56·3	45·4	50·7	+ 3·9	61	0	4	0·34	− 0·38	*	*	*	*	* *
	p Scarborough M	59	21st	45	16th	55·4	49·4	52·3	+ 3·7	72	0	5	0·18	− 0·57	6·5	—	9	—	Scarborough.
	p York	62	18th	45	15th	57·6	49·3	53·3	+ 5·1	79	0	4	0·50	− 0·10	6·2	−13·0	9	−18	York.
b, South.	a Spurn Head	59	18th	49	16th	56·1	51·7	53·8	+ 3·9	83	0	1	0·08	− 0·47	*	*	*	*	* *
	a Lincoln	62	20th	44	18th	58·3	48·9	53·5	+ 5·3	81	0	4	0·22	− 0·36	13·8	—	19	—	Skegness.
	a Fulbeck	62	20th	42	18th	57·7	47·7	52·6	+ 4·8	74	0	5	0·26	− 0·33	11·4	—	16	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	65	20th	48	18th, 19th	58·7	50·2	54·3	+ 6·0	86	0	5	0·12	—	15·1	—	21	—	Cromer.
	p Hillington M	66	18th	44	19th	59·7	47·7	53·5	+ 5·1	81	0	5	0·09	− 0·61	17·3	− 4·6	24	− 6	Hillington.
	a Yarmouth	61	20th	50	17th	57·4	52·1	54·7	+ 5·0	89	0	1	0·21	− 0·49	18·7	—	26	—	Yarmouth.
	a Norwich	62	18th, 20th	41	18th	58·8	48·2	53·3	+ 4·7	79	0	4	0·19	—	*	*	*	*	* *
	a Geldeston	65	18th	38	19th	59·3	48·1	53·5	+ 4·1	81	0	2	0·13	− 0·54	19·7	− 4·9	27	− 7	Geldeston.
	p Cambridge	65	19th	41	18th	59·6	48·5	53·9	+ 5·3	83	0	4	0·42	− 0·11	11·0	−12·9	15	−18	Cambridge.
b, South.	*a Felixstowe*	*61*	*18th*	*47*	*18th*	*58·3*	*52·6*	*55·4*	*+ 4·9*	*94*	*0*	*3*	*0·44*	—	*21·8*	—	*30*	—	*Felixstowe.*
	a Clacton-on-Sea	61	18th, 19th	52	17th, 18th	58·6	53·6	56·0	+ 5·7	98	0	3	0·32	—	18·3	—	25	—	Clacton.
	a Rothamsted	62	18th, 20th	42	18th	59·1	48·9	53·9	+ 5·7	83	0	4	0·49	− 0·18	12·2	−12·0	17	−17	Rothamsted.
	a Shoeburyness	*61*	*19th*	*44*	*18th*	*58·6*	*51·3*	*54·8*	*+ 3·9*	*90*	*0*	*5*	*0·51*	*+ 0·04*	*14·9*	—	*20*	—	*Southend.*
	p Tottenham	66	19th	45	18th	61·3	51·2	56·1	+ 7·5	99	0	3	0·94	—	9·3	—	13	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	57	18th	44	15th	54·1	48·1	51·0	+ 4·2	63	0	6	0·61	− 0·13	4·0	—	6	—	Harrogate.
	a Bawtry	58	19, 20, 21st	40	18th	56·1	47·4	51·6	+ 4·3	67	0	5	0·47	− 0·10	3·6	−15·4	5	−21	Worksop.
	p Buxton M	*61*	*18th, 20th*	*42*	*16, 17, 18th*	*55·1*	*45·0*	*49·9*	*+ 5·1*	*55*	*0*	*5*	*0·81*	*− 0·37*	*4·9*	—	*7*	—	*Buxton.*
	a Nottingham	63	20th	41	18th	57·0	48·1	52·4	+ 4·4	73	0	6	0·39	− 0·16	4·7	—	6	—	Nottingham.
	p Birmingham, Edgbsn	62	20th	44	18th	56·5	48·9	52·6	+ 4·9	74	0	5	0·68	+ 0·08	1·9	—	3	—	Birmingham.
	a Raunds M	64	20th	42	18th	58·0	47·4	52·5	+ 4·4	74	0	4	0·15	—	*	*	*	*	* *
	a Oxford	63	19th	43	18th, 19th	59·0	49·4	54·1	+ 5·7	85	0	6	0·59	− 0·01	11·9	−10·9	16	−15	Oxford.
b, West.	a Cheadle M	58	18th, 20th	42	17th	55·0	47·0	50·9	+ 4·5	62	0	5	0·55	− 0·15	1·2	—	2	—	Sheffield.
	p Shrewsbury	64	20th	47	18th	57·6	50·2	53·8	+ 5·8	83	0	5	0·75	—	*	*	*	*	* *
	a Hereford M	62	20th	45	18th	57·1	49·6	53·2	+ 4·8	78	0	4	0·63	+ 0·03	*	*	*	*	* *
	a Cirencester	62	18th	44	18th	57·8	49·1	53·3	+ 5·8	79	0	4	1·05	+ 0·38	11·3	−11·4	16	−16	Cirencester.
	a Bath	66	19th	48	18th	61·4	51·4	56·3	+ 6·7	100	0	5	0·78	+ 0·11	14·5	—	20	—	Bath.
															18·1	—	*25*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	63	19th	44	18th	60·2	51·2	55·6	+ 6·6	95	0	4	0·60	− 0·01	7·3	−14·0	10	−19	Kew.
	a Marlborough	63	18th, 19th	44	18th	59·6	50·4	54·9	+ 7·8	90	0	4	0·66	− 0·07	11·9	− 9·7	16	−13	Marlborough.
	a Margate	67	19th	51	17th, 18th	60·8	53·6	57·1	+ 6·1	106	0	2	1·01	+ 0·39	17·0	− 7·2	23	−10	Margate.
	a Wisley, Surrey	64	19th	43	18th	59·6	50·9	55·1	+ 5·3	92	0	4	0·62	—	8·7	—	12	—	Wisley.
	a Swarraton M	63	18th, 19th	44	18th	60·0	50·7	55·2	+ 7·4	92	0	4	0·73	− 0·07	24·3	—	33	—	Worthing.
	a Tunbridge Wells M	66	18th	44	18th	59·3	49·8	54·4	+ 5·7	87	0	4	1·69	+ 0·89	15·3	− 9·3	21	−13	Tunbridge Wells.
	a Dungeness	65	19th	50	16th	60·6	53·1	56·7	+ 4·8	103	0	2	0·55	− 0·15	19·4	—	27	—	Littlestone.
	p Hastings	63	18th	51	18th	59·9	53·3	56·5	+ 5·4	102	0	5	0·54	− 0·30	*21·8*	*− 5·2*	*30*	*− 7*	*Hastings.*
	p Southampton	66	19th	47	19th	62·6	53·6	58·0	+ 7·2	112	0	4	0·99	+ 0·19	20·9	− 4·5	29	− 6	Southampton.
	a Ventnor	63	19th	53	17th	60·7	55·8	58·2	+ 5·7	113	0	4	0·65	+ 0·11	19·3	− 8·2	26	−11	Ventnor.
															21·1	− 5·2	29	− 7	Eastbourne.
LONDON	*a Westminster*	*64*	*19th*	*48*	*18th*	*60·9*	*53·0*	*56·8*	*+ 8·0*	*104*	*0*	*4*	*0·65*	*+ 0·06*	*6·9*	*− 3·6*	*9*	*−13*	*Westminster.*
	a Greenwich	*64*	*19th*	*45*	*18th*	*60·4*	*50·9*	*55·5*	*+ 6·2*	*95*	*0*	*4*	*0·77*	*+ 0·21*	*10·7*	*−10·5*	*15*	*−14*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch S	59	17th	42	15th	54·9	47·0	50·8	+ 2·2	62	0	4	0·87	− 0·27	*	*	*	*	* *
	p Glasgow	59	21st	44	15th	54·4	48·0	51·1	+ 4·5	64	0	5	0·87	+ 0·10	8·4	− 7·4	12	−11	Glasgow.
	p Rothesay S	57	17th	46	15th	55·1	48·9	51·9	+ 4·3	69	0	4	1·19	+ 0·22	*	*	*	*	* *
	a Kilmarnock	61	17th	38	15th	57·0	45·4	51·0	+ 4·0	63	0	4	0·66	—	*12·8*	—	*18*	—	*Kilmarnock.*
	a Colmonell	66	17th	38	15th	59·1	46·0	52·4	+ 5·0	73	0	4	1·72	+ 0·70	*	*	*	*	* *
	p Dumfries S	59	18th, 20th	45	15th	57·1	47·9	52·4	+ 5·4	73	0	4	1·02	+ 0·19	*11·3*	—	*16*	—	*Dumfries.*
	p Cally, Gatehouse S	60	17, 18, 20th	40	18th	58·4	46·7	52·4	+ 5·5	73	0	3	1·18	+ 0·08	*	*	*	*	* *
b, ISLE OF MAN	p Douglas	60	20th	51	16, 17, 18th	56·7	51·9	54·2	+ 6·1	85	0	4	0·85	− 0·19	14·6	− 8·6	20	−12	Douglas.
															10·3	—	14	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	61	17th, 20th	41	18th	58·6	46·3	52·3	+ 5·2	72	0	4	0·55	− 0·37	24·3	—	34	—	Aspatria.
	p Newton Rigg	62	18th	37	15th	57·0	45·3	51·0	+ 5·2	63	0	2	0·44	− 0·43	14·5	− 4·5	20	− 6	Newton Rigg.
	p Stonyhurst	59	18th	47	18th	56·1	49·7	52·8	+ 5·9	76	0	4	0·56	− 0·52	11·4	− 8·4	16	−12	Stonyhurst.
	p Blackpool M	63	20th	46	15th, 18th	57·6	49·3	53·3	+ 4·6	79	0	4	0·30	− 0·56	13·5	− 7·2	19	−10	Blackpool.
	p M'nch'ster, Prestwich	60	20th	44	18th	56·4	49·6	52·9	+ 5·6	76	0	4	0·73	− 0·16	*5·2*	*− 9·4*	*7*	*−13*	*Prestwich.*
	a Liverpool (Bidston)	60	20th	48	18th, 19th	57·3	50·1	53·6	+ 4·1	81	0	3	0·25	− 0·52	*10·7*	—	*15*	—	*Liverpool.*
	a Hawarden Bridge	62	21st	49	19th	58·9	51·4	55·0	+ 5·4	91	0	4	0·36	− 0·33	*14·4*	*− 5·2*	*20*	*− 7*	*Southport.*
															10·7	—	*15*	—	*Rhyl.*
b, NORTH WALES	p Llandudno M	63	18th, 20th	49	18th	57·9	51·2	54·5	+ 3·8	88	0	4	0·36	− 0·47	13·9	− 5·8	19	− 8	Llandudno.
	a Holyhead	65	18th	48	18th	59·3	50·9	55·0	+ 4·5	91	0	4	0·82	− 0·05	18·2	—	25	—	Aberdovey.
	p Bettws-y-Coed	66	18th	44	18th	59·1	49·4	54·1	+ 4·3	85	0	4	0·47	—	13·3	—	18	—	Bettws-y-Coed.
															19·6	—	27	—	Aberystwyth.
															9·7	—	13	—	Llangammarch Wells.
8. a, SOUTH WALES	a Llangammarch Wells	63	18th	46	17th	57·4	49·3	53·2	+ 6·5	78	0	4	1·46	—	13·4	−10·1	18	−14	Pembroke.
	a Pembroke	61	17th, 18th	48	17th	59·6	52·4	55·9	+ 4·6	97	0	4	1·35	+ 0·48	*11·7*	—	*16*	—	*Cardiff.*
	p Cardiff	63	19th	48	17th	58·7	51·5	55·0	+ 6·6	91	0	4	1·19	+ 0·15	*13·4*	*−11·2*	*18*	*−15*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	66	19th	49	18th	60·3	52·5	56·3	+ 7·6	100	0	5	0·58	− 0·25	*12·2*	—	*17*	—	*Clifton.*
	a Shaftesbury M	63	18th	47	18th	59·3	49·9	54·5	+ 6·0	88	0	4	0·89	+ 0·09	*	*	*	*	* *
	a Arlington	64	18th	48	18th	60·1	51·6	55·7	+ 7·2	96	0	4	0·89	− 1·57	18·3	− 7·0	25	− 9	Newquay.
	a Cullompton M	65	15th	49	18th	61·8	53·2	57·4	+ 8·2	108	0	4	1·01	+ 0·17	6·9	−14·7	9	−20	Cullompton.
	a Portland Bill	64	19th	54	17, 18, 19, 21	60·3	55·1	57·6	+ 5·2	109	0	5	0·23	—	*17·2*	—	*23*	—	*Weymouth.*
	p Plymouth	64	19th	51	15th	60·9	53·7	57·2	+ 6·0	106	0	5	1·18	+ 0·35	13·5	−10·9	18	−15	Plymouth.
	p Falmouth	61	19th	53	21st	59·2	55·4	57·2	+ 5·6	106	0	5	1·26	+ 0·18	14·2	−12·1	19	−16	Falmouth.
															9·0	—	*12*	—	*Salcombe.*
															10·7	*−14·3*	*15*	*−19*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	62	18th	49	18th	57·6	50·9	54·2	+ 5·3	85	0	3	0·12	− 0·60	*	*	*	*	* *
	a Blacksod Point	63	18th	51	16th, 17th	59·0	52·4	55·6	+ 5·7	95	0	2	0·68	− 0·48	*	*	*	*	* *
	p Markree Castle	65	18th	47	18th	60·9	49·8	55·2	+ 8·0	92	0	5	1·07	+ 0·14	21·2	+ 1·2	29	+ 2	Markree Castle.
	a Birr Castle	65	17th	48	17th	60·9	51·9	56·3	+ 9·1	100	0	4	0·95	+ 0·32	*23·6*	*+ 1·4*	*32*	*+ 2*	*Birr Castle.*
b, East.	p Armagh	63	18th	49	17, 18, 21st	58·9	50·7	54·7	+ 7·4	89	0	5	0·96	+ 0·36	15·7	− 4·9	22	− 7	Armagh.
	a Donaghadee	59	20th	52	17th, 18th	56·7	53·0	54·8	+ 5·9	90	0	4	1·45	+ 0·82	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City	61	18th	52	17th, 21st	58·8	53·3	56·0	+ 6·8	98	0	5	1·43	+ 0·84	11·9	−12·6	16	−17	Phœnix Park.
	a Kilkenny	62	17th, 18th	49	17th	59·7	51·7	55·6	+ 7·5	95	0	6	1·33	+ 0·68	*	*	*	*	* *
	a Waterford	62	18th	48	16th	59·7	52·6	56·1	+ 7·0	99	0	6	2·22	+ 1·42	*	*	*	*	* *
b, West.	a Birr Castle	65	17th	48	17th	60·9	51·9	56·3	+ 9·1	100	0	4	0·95	+ 0·32	23·6	+ 1·4	32	+ 2	Birr Castle.
	a Foynes	63	18th, 19th	50	16th, 21st	60·3	52·2	56·1	+ 6·6	99	0	4	0·19	− 0·65	*	*	*	*	* *
	a Cahir M	61	17th, 19th	49	21st	58·6	52·5	55·5	+ 6·1	95	0	5	1·58	—	*	*	*	*	* *
	a Killarney	66	18th	48	21st	59·7	52·9	56·2	+ 6·9	99	0	4	1·51	+ 0·31	*	*	*	*	* *
	a Valencia	64	18th, 19th	49	21st	61·0	53·4	57·1	+ 5·8	106	0	5	1·70	+ 0·51	15·7	− 7·7	22	−11	Valencia.
	a Roche's Point	59	15th	52	21st	57·6	53·4	55·4	+ 4·5	94	0	6	1·45	+ 0·56	5·5	—	8	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's	60	18th	52	21st	58·9	53·9	56·3	+ 2·9	100	0	3	1·31	+ 0·52	8·3	−18·0	11	−24	Scilly.
	a Jersey, St. Aubins	67	18th	52	18th	62·7	54·4	58·4	+ 4·6	115	0	2	0·24	− 0·76	25·4	− 3·2	34	− 4	St. Heliers.
	a Guernsey	68	18th	54	18th, 21st	62·9	55·5	59·1	+ 5·5	120	0	4	0·33	− 0·69	18·9	− 6·9	26	− 9	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 23·8 hrs.* (− *3·4 hrs.*), *32* % (− *5* %); *Bournemouth, 20·8 hrs., 28* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	48·9	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	49·3
	Crathes	1	26	47·0	50·0
	Balmoral	2	27	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	0	38	48·6	—
2.	Cockle Park	0	36	49·4	49·9
	Durham	0	43	—	—
	York	—	—	52·1	53·5
	Hull	0	35	50·9	53·0
	Lincoln	—	—	50·8	53·0
	Rauceby	0	36	52·7	54·8
3.	Norwich	0	35	—	—
	Yarmouth	—	—	53·4	56·0
	Lowestoft	0	41	53·2	55·6
	Cambridge	0	38	53·0	55·4
	Clacton-on-Sea ..	0	45	54·8	55·9
	Southend	0	41	56·1	—
	Tottenham	0	41	—	57·7

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	0	44	50·5	51·0
	Huddersfield ..	0	47	50·3	52·4
	Buxton	0	39	50·6	52·3
	Sheffield	0	44	50·7	52·3
	Nottingham.. ..	0	38	51·6	53·9
	Birmingham.. ..	0	41	51·1	52·3
	Oxford	0	—	—	—
	Hereford	0	35	—	—
	Cirencester	0	43	53·3	54·2
	Bath	—	—	54·8	56·0
5.	Margate	0	41	54·4	55·0
	Greenwich	0	37	—	—
	Westminster ..	0	42	—	—
	Kew	0	40	53·1	54·7
	Canterbury	0	38	53·5	55·7
	Tunbridge Wells ..	0	38	53·8	—
	Wisley	0	38	53·9	55·1
	Worthing	0	45	55·9	57·0
	Portsmouth	0	44	56·0	57·0
6.	Glasgow	1	26	—	—
	Rothesay	—	—	—	50·3
	Colmonell	0	35	—	—

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	0	32	49·4	52·0
	Douglas	0	49	—	—
7.	Aspatria	0	32	48·5	51·1
	Newton Rigg ..	1	30	50·2	51·2
	Burnley	0	38	49·6	51·2
	Southport	0	38	50·7	52·5
	Manchester City ..	0	44	51·2	54·5
	Bettws-y-Coed ..	0	43	51·3	52·0
8.	Llangammarch Wells	0	33	52·2	53·0
	Cardiff	0	46	54·1	55·0
	Clifton	0	48	—	—
	Plymouth	0	52	56·5	—
9.	Armagh	0	43	52·3	53·0
	Markree	0	44	53·6	54·0
10.	Dublin, Trin. Coll. ..	0	44	53·9	53·9
11.	Guernsey, Brooklyn	0	43	58·1	58·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	50	51·0
	Kirkwall	46	46	46·0
	Wick	53	52	52·4
SCOTLAND E.	Cromarty	51	49	50·1
	Pennan Bay	—	—	—
	Aberdeen, Cove Bay ..	52	52	52·0
ENGLAND, N.E.	Burnmouth, Berwick ..	49	48	48·9
	Scarborough	55	52	53·4
ENGLAND, E.	Shipwash Lightship ..	57	55	56·5
	Margate‡	56	55	55·5
ENGLAND, S.E.	Eastbourne‡	58	57	57·3

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	53	52	52·9
	Ballantrae	54	46	50·4
ENGLAND, N.W.	Port Erin	56	54	54·7
ENGLAND, S.W.	Newquay	59	58	58·1
	Scilly	55	52	53·4
	Plymouth‡	56	55	55·5
	Salcombe	58	57	57·7
IRELAND, N.W.	Sheephaven	54	52	53·1
	Teelin	56	53	54·6
IRELAND, S.W.	Cleggan	53	50	51·8
	Seafield	58	53	55·0
IRELAND, E. ..	.. .. ..	—	—	—

Only one observation each day.

Corrections and Additions for September, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.

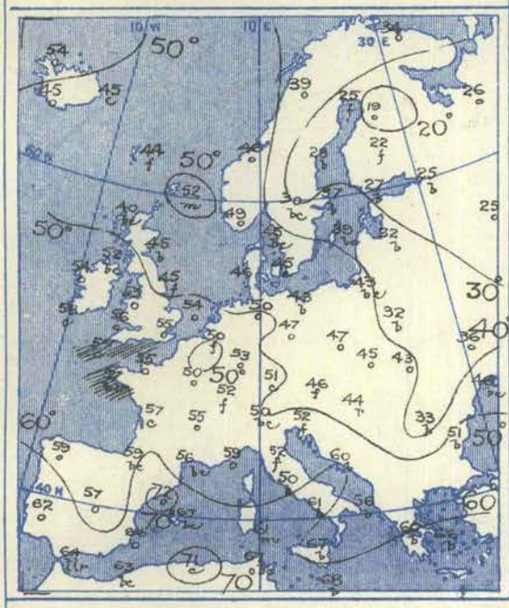
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
District Values.—																		
No. 38, p. 306	10. Ireland, S.	—	—	—	—	—	—	—	—	—	—	—	0·81	+0·17	—	—	—	—
Station Values.—Additions.																		
No. 36, p. 291	Norwich	91	8th	46	4th	77·8	53·2	64·9	+ 7·0	160	0	2	0·10	—	—	—	—	—
No. 38, p. 307	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	52·7	—	61	—
No. 38, p. 307	Killarney	67	23rd	46	21st	61·7	48·1	54·6	0·0	88	0	4	1·18	+0·26	—	—	—	—
Station Values.—Corrections.																		
No. 35, p. 283	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	48·3	+17·1	50	+18
No. 35, p. 283	Fulbeck	—	—	—	—	72·9	—	63·2	+ 4·9	148	—	—	—	—	—	—	—	—
No. 35, p. 283	Cambridge	—	—	—	—	75·7	—	63·8	+ 4·2	153	—	—	—	—	—	—	—	—
No. 35, p. 283	Stonyhurst	—	—	—	1st, 2nd	66·4	—	59·2	+ 3·2	120	—	—	—	—	—	—	—	—
No. 36, p. 291	Strathpeffer	—	—	—	—	—	49·9	56·0	+ 3·0	98	—	—	—	—	—	—	—	—
No. 36, p. 291	Hillington	—	—	—	—	—	48·5	62·4	+ 5·1	143	—	—	—	—	—	—	—	—
No. 36, p. 291	Tottenham	—	—	49	8th	—	55·2	67·8	+ 9·2	181	—	—	—	—	—	—	—	—
No. 36, p. 291	Buxton	—	—	—	—	72·3	—	57·4	+ 2·5	108	—	—	—	—	—	—	—	—
No. 36, p. 291	Stonyhurst	77	8th	—	—	66·9	—	57·7	+ 2·6	110	—	—	—	—	—	—	—	—
No. 37, p. 299	Durham	—	—	38	10th	—	45·7	52·8	− 1·6	76	—	—	—	—	—	—	—	—
No. 37, p. 299	Buxton	—	—	—	—	62·9	45·3	53·7	+ 1·1	82	—	—	—	—	—	—	—	—
No. 37, p. 299	Swarraton	—	—	—	—	—	49·6	58·3	+ 2·6	114	—	—	—	—	—	—	—	—
No. 37, p. 299	Llandudno	—	—	—	—	—	53·4	58·2	+ 1·4	113	—	—	—	—	—	—	—	—
No. 37, p. 299	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	37·7	+2·1	42	+2
No. 38, p. 307	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	36·4	+9·7	42	+11
No. 38, p. 307	York	—	—	—	—	—	—	—	—	—	—	—	—	—	39·3	+12·1	46	+14
No. 38, p. 307	Buxton	—	—	—	—	57·2	38·4	47·4	− 3·9	53	10	—	—	—	—	—	—	—
No. 39, p. 315	York	—	—	—	—	—	—	—	—	—	—	4	1·18	+0·71	—	—	—	—
No. 39, p. 315	Hillington	—	—	—	—	63·2	—	53·6	0·0	81	—	—	—	—	—	—	—	—
No. 39, p. 315	Buxton	—	24,26,27	40	30th	56·5	43·1	49·5	− 0·2	53	—	—	—	—	—	—	—	—

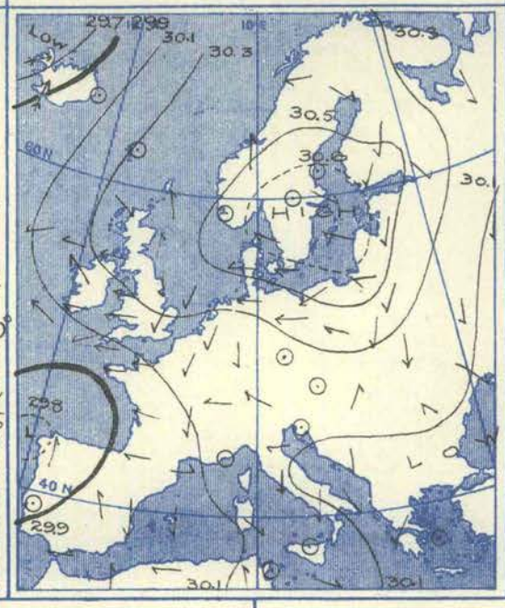
Station Values.—Additions.		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 36, p. 292	Norwich	0	43	—	—
No. 36, p. 292	Bath	—	—	65·3	63·1
No. 38, p. 308	Lowestoft	0	39	58·0	60·3

Sunday, 15th October, 1911.

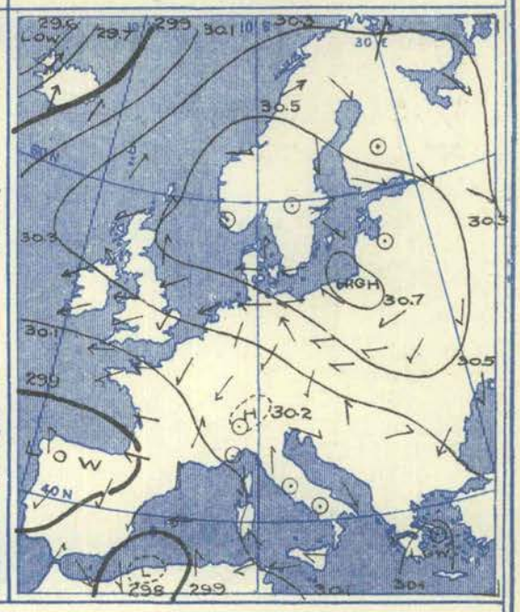
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning rainy in Brittany and the extreme south of Spain, with thunderstorms in several places, and rain also falling at Cape Sicié and Buda-Pesth. Mostly fair to fine elsewhere, but overcast over a considerable area in England, Germany and Russia. Slight rain later in various English localities, moderate quantities in some parts of France, and heavy falls in the Spanish Peninsula; 0·9 in. at Lisbon, 1·3 in. at Barcelona, and 1·5 in. at Malaga.

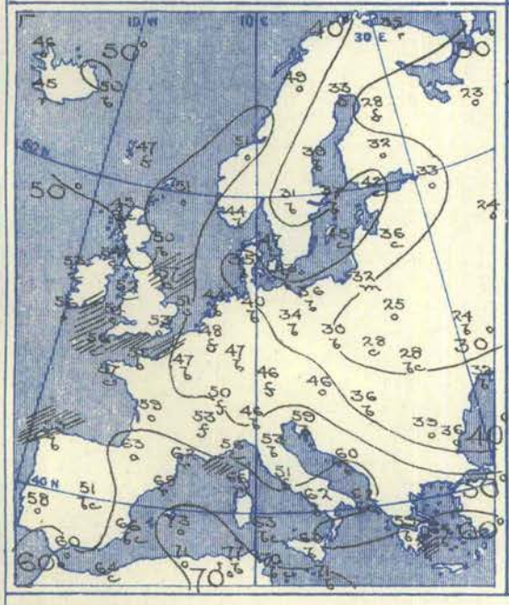
Temperature risen in some parts of Norway and England, fallen in most other regions. Morning readings ranging from 19° at Ulcaborg and below 32° over a large area in the north-east of the Continent to about 55° in many parts of England and Ireland, to above 60° in Portugal and on many shores of the Mediterranean, and to 71° at Algiers. Maxima during day slightly above 60° at some stations in southern England, and 64° at Oban; below 55° in most parts of Germany, but above 70° over the southern half of France, and also in Italy, the Spanish Peninsula, and the south of our area generally.

Wind in morning anticyclonic over Europe, cyclonic over the Bay of Biscay region and in Iceland. Little force as a whole, but Easterly current strong on the south and south-west coasts of England, and that from the Southward strong to a gale in Iceland. Increasing to the force of a high wind at Scilly by evening, but no general change taking place.

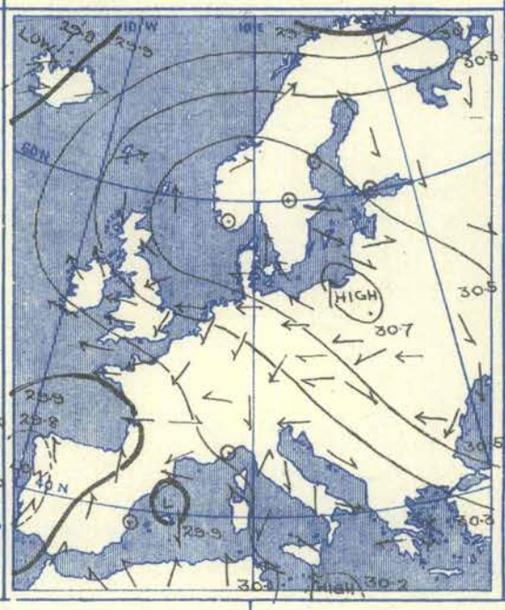
Barometer in morning above 30·6 in. in a very large high pressure system, having its maximum over the South of Sweden; below 29·9 in. in a depression covering the Bay of Biscay, and below 29·7 in. in the north-west of Iceland. Anticyclone increasing both in size and intensity during day, but no change occurring in the general distribution of pressure. Bay depression undergoing hardly any modification.

Monday, 16th October, 1911.

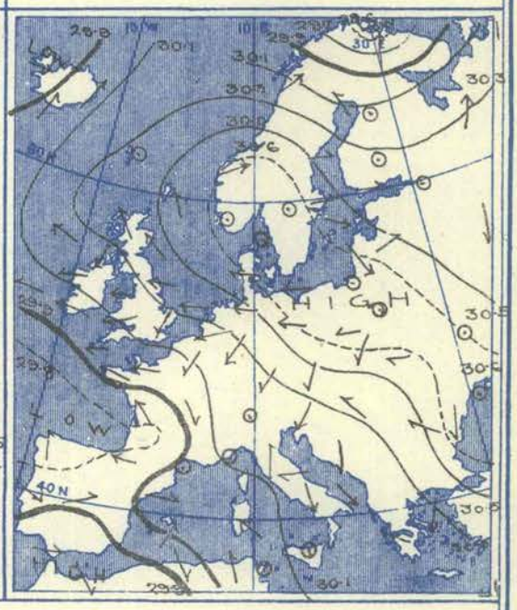
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very cloudy or overcast in most parts of these Islands, France, and the south of Spain, with slight rain at some of the English stations, and more decided falls in the south-western parts of France and Spain. Generally fair to fine and bright elsewhere, but overcast in places. Rain falling at Vardö and also in Iceland. Heavy amounts of rain later in the south of France and various parts of Spain; 1·2 in. at Perpignan, 1·8 in. at Barcelona, 2·8 in. at Malaga, and 0·9 in. at Gibraltar. Thunderstorms occurring at Perpignan and Algiers.

Temperature risen in Scotland and Scandinavia, changed little generally. Morning readings ranging from about 25° over a large portion of Russia and Poland, 30° at Breslau, and 31° at Karlstad to above 50° in Ireland, England, and France, and to above 60° at most stations in the south of our area; thermometer as high as 73° at Palma and 77° at Cape de Garde. Rising to about 60° later in several parts of the United Kingdom, to nearly 80° at some stations in the south of Europe, and to 91° at Tunis. Maxima below 55° over the greater portion of central Europe and only 37° at Lemberg. Subsequent minima high for the time of year over this country.

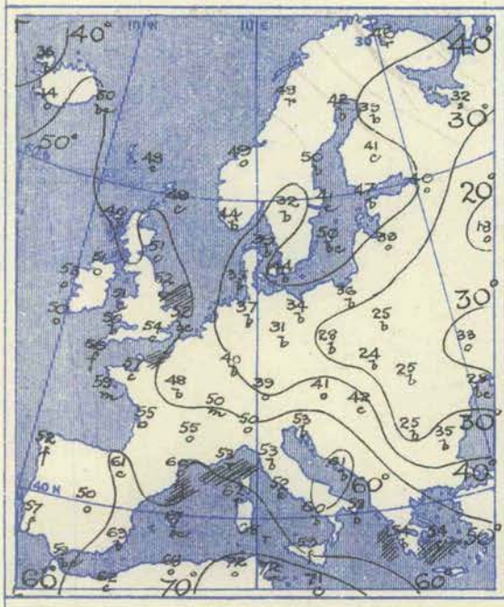
Wind in morning anticyclonic except in the south-west and extreme north of our area. Easterly current fresh to strong in some exposed parts of England and Ireland, and high at Toulouse, and that from South-West strong at Vardö. Very light to moderate in nearly all other regions, but a North-Easterly gale prevailing at Athens. No change of importance during day.

Barometer in morning above 30·7 in. in East Prussia, and high over nearly the whole of the Continent. Below 29·8 in. in Portugal, and below 29·9 in. in the far north of Norway. No great change during day in the general situation, but pressure decreasing decidedly in the north of Scandinavia, and gradient increasing considerably in that region. Barometer falling very slightly or remaining stationary in these Islands.

Tuesday, 17th October, 1911.

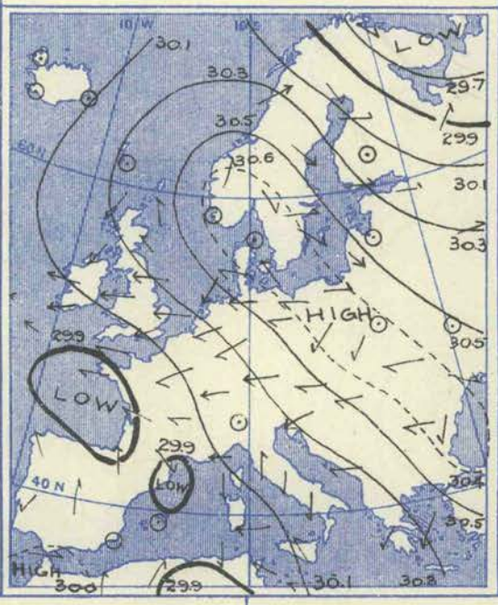
Temperature and Weather.

7 a.m.

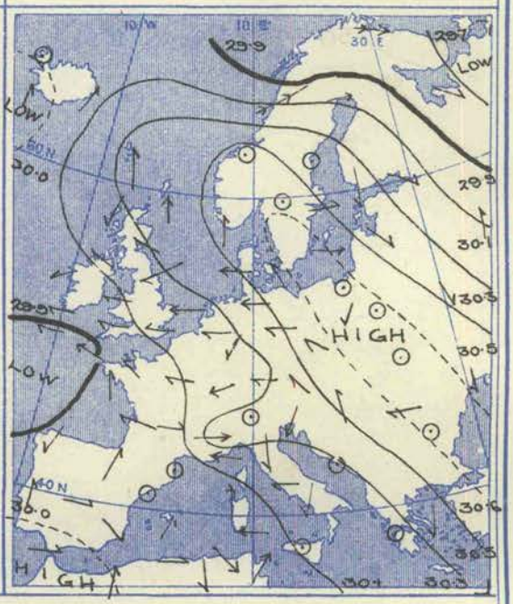


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy to overcast in these Islands, Russia, and the north of Norway, with rain at Roche's Point and Bodö, and snow at Archangel. Overcast at many stations in the west of the Mediterranean region, with rain in places. Generally fair to bright elsewhere. Extremely heavy rains later in the South of France; 2·1 in. at Perpignan, 1·9 in. at Cape Béarn, and as much as 6·9 in. at Cette. Nearly an inch at Lisbon and Gibraltar, and 2·1 in. at Cagliari. Thunderstorms at Biarritz and Perpignan.

Temperature changed little as a whole; risen at several stations in the north. Readings in morning about 50° in England, Ireland, and at many Scottish stations; below 40° over a very wide area on the Continent, and as low as 25° in Poland and 18° at Moscow. Above 60° at various places on the shores of the Mediterranean, 71° at Malta and 72° at Cape de Garde. Rising to 65° during day in central Ireland, and to 60° or a little above in some English localities and at Oban. Maxima lower in central Europe, but above 70° in the south of our area, and as high as 80° at Malta. Thermometer falling to 30° during night at Nairn.

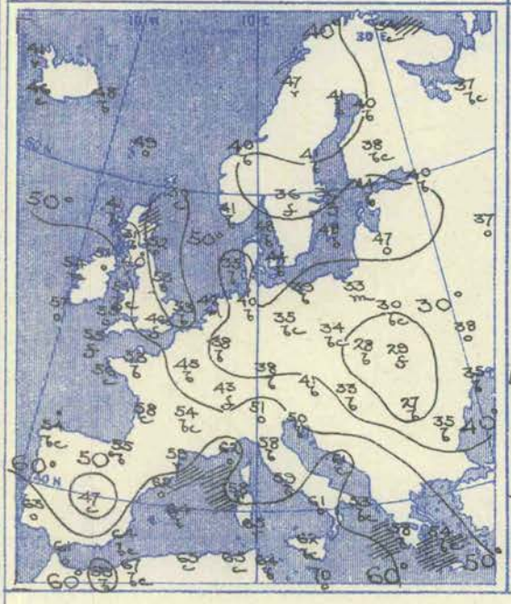
Wind in morning anticyclonic over all the central regions of Europe, cyclonic in the north-east and south-west. Easterly current still fresh to strong in some parts of England and Ireland and a similar force prevailing on the south-east coast of France. A strong South-West wind blowing at Bodö, and a high wind from North-East at Athens. No general change during day, but South-Westerly to Westerly wind increasing to a gale in the north of Norway.

Barometer in morning above 30·6 in. in an anticyclonic band extending from Norway to the Black Sea; below 29·7 in. in a depression in the extreme north of Scandinavia, and below 29·9 in. over the Bay of Biscay, and also in a shallow depression over the Gulf of Lion. High pressure system receding somewhat in a south-easterly direction during day; pressure giving way briskly in the north-west of Norway, and some minor modifications taking place elsewhere. Gradient becoming steep over the northern half of Norway.

Wednesday, 18th October, 1911.

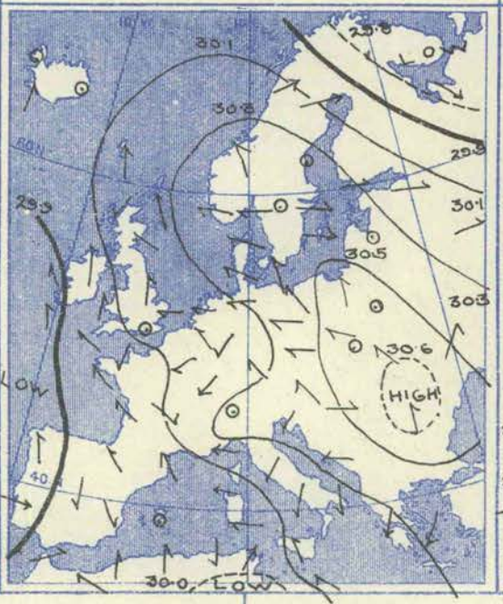
Temperature and Weather.

7 a.m.

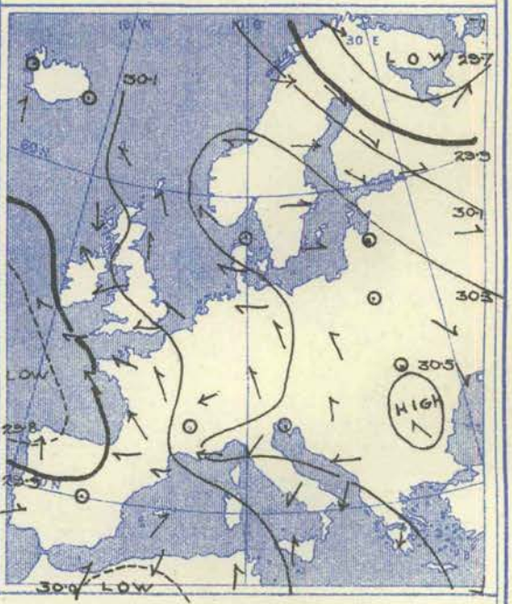


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy to overcast in nearly all parts of the United Kingdom, with mist or fog in several English localities; fair to fine in most other regions, but rainy on the south coast of France and on some other shores of the Mediterranean, as well as at San Fernando and Bodö. Heavy rain later in the south of France, at Madrid, and Cagliari; as much as 1·5 in. at Cape Béarn. Slight quantities in several parts of these Islands.

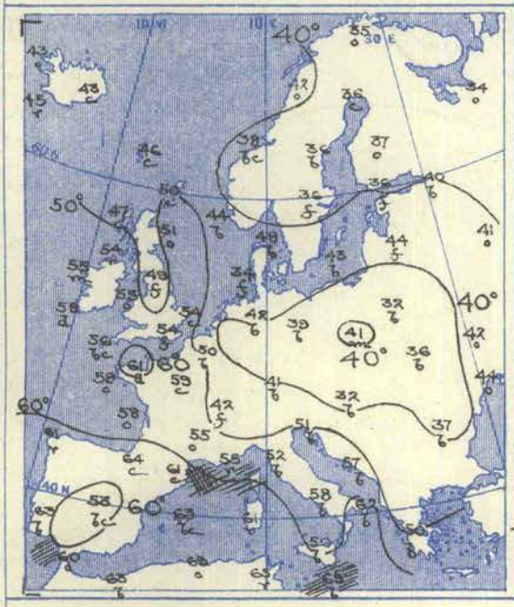
Temperature changed little as a whole; fallen in Scandinavia, risen in Russia. Readings in morning ranging from 75° at Sfax, 70° at Malta, and above 60° at various other stations in the Mediterranean region to below 40° in central Scotland and over a large area in the east and north-east of the Continent, and to 28° at Cracow. Maxima during day some degrees above 60° in many parts of England and Ireland, above 70° at many stations in the south of Europe and in Algeria. Thermometer remaining below 60° in the central countries, and also at Turin and Athens.

Wind in morning anticyclonic over our area as a whole, but cyclonic in the far north and south, and also in the west of these Islands. A fresh to strong Easterly breeze on the south coast of France, strong to high North-Easterly winds in Greece, a high wind from South-West at Bodö, and a Northerly gale at Vardö. Easterly wind increasing in force during day in the south of France, and current becoming more cyclonic over this country. Gale growing stronger at Vardö and backing to the Westward.

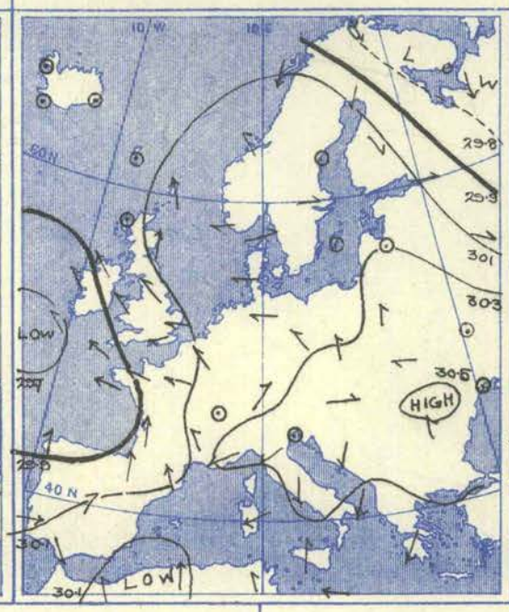
Barometer in morning above 30·2 in. over the major portion of the Continent, and above 30·4 in. in Transylvania; below 29·8 in. in the extreme north of Russia, relatively low in some small disturbances on the Mediterranean, and below 29·6 in. in a large depression on the Atlantic some distance to the westward of Ireland. Latter system moving slowly eastward during day, and a steady decrease of pressure taking place in these Islands and over the Bay of Biscay. Little change occurring within the high pressure system.

Thursday, 19th October, 1911.

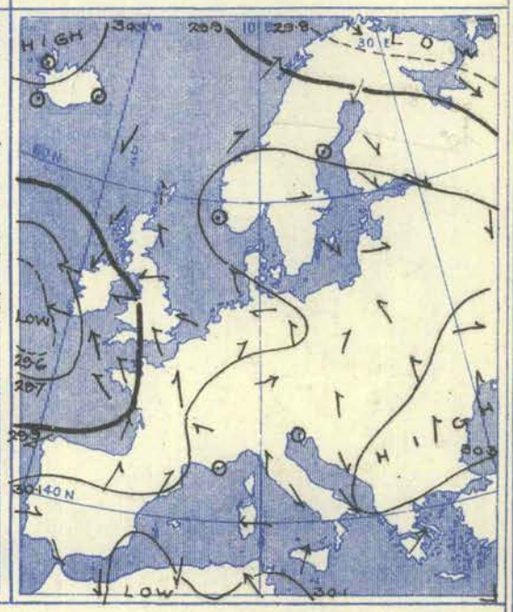
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning very cloudy or overcast in Russia, Finland, and these Islands, with rain at Jersey and some Irish stations. Generally fair to bright elsewhere, but rainy in the west of the Spanish Peninsula, and also at Nice, Cagliari, and Tunis. Fog or mist prevailing in various parts of England. Rain later very generally over the United Kingdom, but not in very large quantity. Rain also falling in some French and Italian localities.

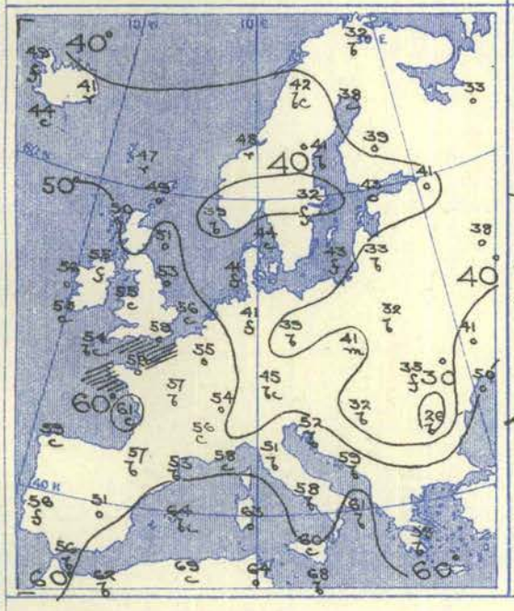
Temperature risen over the United Kingdom and France, fallen in Scandinavia. Morning readings ranging from 69° at Malta and Algiers, above 60° at many other stations in the far south and about 60° in the south of England to 50° at Patras, below 40° over a very large area in central and northern Europe, to 32° at Cassel, and 30° at Cracow. Maxima during day about 65° in several parts of England, and about 70° over a large area in southern Europe. Thermometer touching 60° in various parts of Holland and Germany. Night very mild generally.

Wind in morning mainly anticyclonic and of little force, but showing a cyclonic movement over these Islands and the adjacent portions of the Continent and Atlantic. Fresh at Scilly, moderate or light elsewhere. A strong gale from North-West blowing at Vardö. No general change later either in direction or strength. A gale from North-East setting in at Athens.

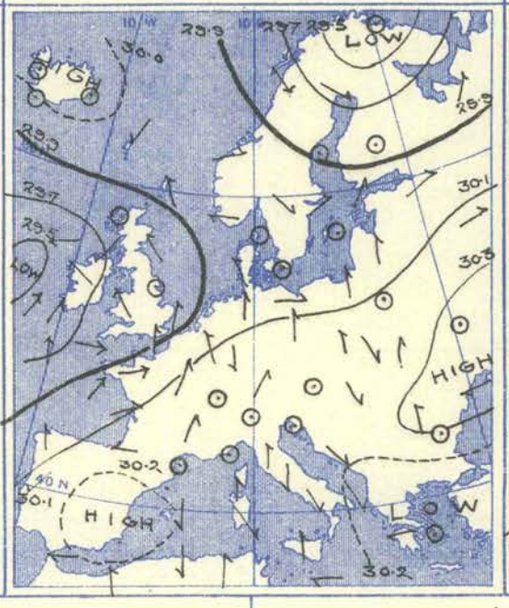
Barometer in morning above 30·2 in. in a very large high pressure system, having its maximum (30·5 in.) in Transylvania. Below 29·8 in. in the White Sea region, and below 29·6 in. on the Atlantic beyond Ireland. Anticyclonic system becoming much less intense by evening, but not much change occurring in the general distribution of pressure, Atlantic depression approaching nearer to these Islands.

Friday, 20th October, 1911.

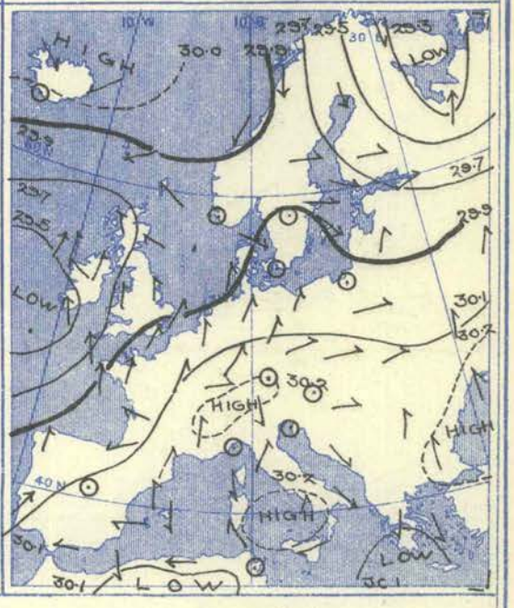
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning mainly cloudy or overcast in these Islands and the northern countries of the Continent, with rain at Christiansund and at some Scottish stations, and fog at Cuxhaven and in Denmark. Generally fair to bright over southern Europe. Rain later over the United Kingdom, heavy at several western stations, and slight falls in a few localities on the Continent.

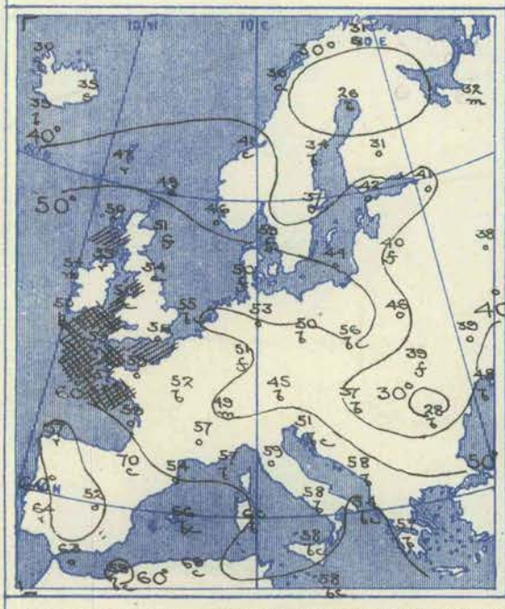
Temperature showing no decided or general change. Morning readings 55° or above in most parts of England and Ireland and the nearer regions of the Continent, and above 60° on many shores of the Mediterranean. Below 40° over a considerable portion of central Europe and in nearly all parts of Russia and Scandinavia; as low as 26° at Hermanstadt. No higher than 50° at Patras. Maxima during day above 60° in England and at various stations in the Netherlands and Germany, about 70° in the south of France and Italy, and some degrees above in Algeria, the south of Spain, Sicily, and Malta. Minima at night much above the normal in these Islands.

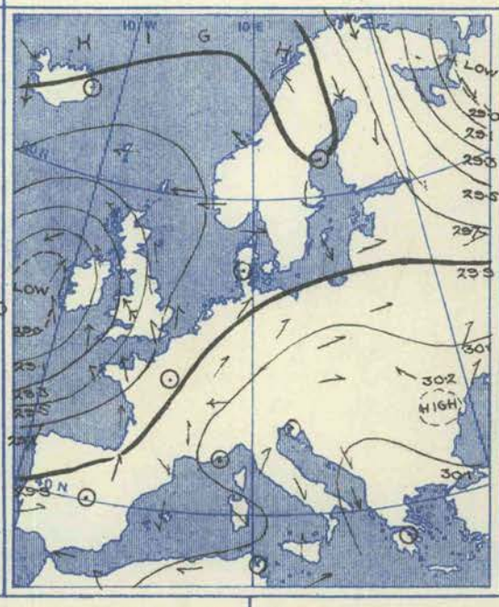
Wind in morning showing a cyclonic circulation over this country and the adjacent portion of the Mediterranean; light or moderate generally, but Westerly current fresh on the English Channel. Light anticyclonic airs prevailing over nearly the whole of southern and eastern Europe. Backing to the Southward by evening on our south and south-west coasts and increasing in force. Reaching the strength of a gale at Roche's Point, Pembroke, and Scilly.

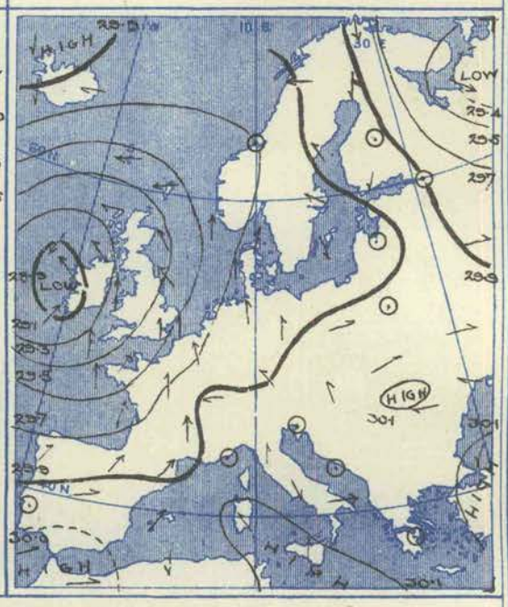
Barometer in morning above 30·3 in., in the south of Russia and above 30·2 in. over the south of our area as a whole; below 29·5 in. in a well-marked depression having its centre about 200 miles to the west of Ireland, and also in another system in the extreme north of the Continent. Atlantic disturbance extending slowly over these Islands during day and apparently increasing in intensity. Northern depression moving south-eastward and growing deeper.

Saturday, 21st October, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning very unsettled over the western regions of our area, with rain in Brittany and the west and south-west of these Islands, as well as on the north and west coasts of the Spanish Peninsula. Generally fair to bright elsewhere, but rain falling at Swinemünde and snow at Vardö. Considerable or heavy rain later over the United Kingdom, nearly the whole of France, the Netherlands, Norway, and Portugal. Thunderstorms at night in the south-east of England and the south of Ireland.

Temperature changed little as a whole; fallen in the north-east. Morning readings ranging from 70° at Biarritz, 69° at Algiers, 68° at Barcelona, and above 60° in some other southern localities to about 50° in Germany and Scotland, to below 40° over a large area in the east and north of Europe, and to below 32° in places. Again rising to about 60° over a large portion of this country and to about 70° in the southern regions of the Continent. Thermometer remaining much above the normal at night in these Islands.

Wind in morning anticyclonic, and very light, over a large area in the south and east of the Continent; cyclonic elsewhere. Southerly current strong on our western and southern coasts and in Brittany, with a gale at Pembroke, and force increasing quickly over England generally. A North-Westerly gale prevailing at Vardö. Southerly and South-Westerly wind rising to a gale during day or at night on the south and south-west coasts of these Islands and the adjacent portion of France, but the Easterly current in Scotland remaining light or moderate. Gale subsiding at Vardö, but a high wind from North-West setting in at Archangel.

Barometer in morning below 28·9 in. in a depression having its minimum about 150 miles to the west of Valencia, and below 29·9 in. in another over the extreme north of Russia. Above 30·0 in. in the far north-west of Iceland, and also over a wide area on the Continent. Atlantic depression moving slowly Eastward during day and gradient becoming much steeper over England and the Channel region. Russian disturbance travelling away Eastward and pressure increasing very briskly in its rear.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	October 15th, 10.0 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	285·8° 90% 40, 9	283° 100% 70 ?	280·2° 100% 80 ?	277·5° 100% 80, 18					Overcast Strato Cu. Clouds var: heights above 400 m.
2	October 17th, 10.0 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 74% 60, 11	285·2° 74% 70, 20							Clear sky. Wind increasing, ascent abandoned.
3	October 21st, 10.0 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 130 m.	Temperature.. Humidity .. Wind	286° 90% 170, ?	285·5° 90% 170, ?	283·0° 59% 180, ?						Overcast, Anemometer failed. Extremely strong and gusty wind. Pull on wire ranged from 10 to 180 lbs.

APPARATUS USED IN THE KITE OR BALLOON ASCENT.

No. of Ascent.	1	2	3
No. of Kites	1	1	1
Area of Surface (sq. metres) ..	7	7	4
Capacity of Balloon (cub. metres) ..	—	—	—
Length of Wire (metres)	1,400	155	600

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 43. FORTY-THIRD WEEK, SUNDAY, OCTOBER 22ND, TO SATURDAY, OCTOBER 28TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d

I.—General Remarks.

Weather was in a very unstable condition throughout. Considerable or heavy falls of rain occurred on most days, and some snow and sleet in Scotland. Thunderstorms were experienced in many parts of England on the 22nd, and in some localities on the 24th or 25th. Bright aurora was observed at Fort William on the 25th.

Temperature was below the average in Ireland, Scotland, and the northern districts of England, (as much as 3° in Scotland N.), but rather above it in the Midlands and England E., S.E. and S.W., and also in the English Channel. The highest of the maxima were registered on the 22nd or 23rd at most stations, and ranged from 61° in England S.E., the Midland counties and the English Channel, to 57° in Scotland W. The lowest of the minima were generally recorded either on the 26th or 28th, but on the 25th in some Irish localities. In Scotland N. and W. (at Fort William and Kilmarnock) the thermometer fell to 21°, and in Scotland E. to 23°, while elsewhere the figure ranged from 26° in Ireland N., to 32° in England E., and to 45° in the English Channel. The lowest grass readings were 16° at Llangammarch Wells, 17° at Newton Rigg, 20° at Markree Castle, Armagh and Balmoral, 21° at Glasgow and Aspatria, and 22° at Crathes.

Mean Temperature of the Sea. At some stations in the west and south-west and at Margate, the water was warmer than during the corresponding week of last year, but generally it was colder. The means ranged from 57° at Newquay, and about 56° at Salcombe, Margate and Eastbourne, to 45° at Kirkwall.

Rainfall was less than the normal in Scotland N. and W., but considerably in excess over the Kingdom generally. In England S.E. and the English Channel the fall was more than twice the average. On the 24th many stations in the south recorded more than an inch in 24 hours; the heaviest falls were 1·3 in. at Wisley and Hastings, 1·4 in. at Portsmouth and Greenwich, and 1·9 in. at Eastbourne. At Aberdeen 1·13 in. fell on the 23rd, and at Guernsey 1.4 in. on the 27th.

Bright Sunshine exceeded the normal in Scotland N., and also in England S.W. and Ireland N., but was less elsewhere. The percentage of the possible duration ranged from 34 in Scotland N., and 32 in England S.W. to 22 in England N.E. and the English Channel.

Barometer and Wind. At the commencement of the week the centre of a deep depression lay over Ireland, and high winds or gales were experienced very generally on our south-western and southern coasts. By Monday morning this system had travelled away to Scandinavia, but on Tuesday another disturbance of less intensity appeared over our western districts. This also moved north-eastward, but except on the south coast of Kent, its passage was accompanied by no gales. By Thursday another deep depression had advanced to Ireland from the Atlantic, and after remaining stationary for a time, while secondary disturbances developed over England and the North Sea region, the entire system travelled south-south-eastwards to the Continent. Easterly gales occurred on Thursday on the north coast of Ireland, and Westerly or South-Westerly gales on the south coast of Ireland, and along the south-west and south coasts of England, while the Easterly and North-Easterly current on the Scottish coast increased considerably in force.

THE WEEK

For explanation of the terms "Unusual, &c., *see* p. 348.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Light	Heavy	Heavy	Heavy	Heavy	Heavy	Light	Heavy	Heavy	Moderate	Heavy	Very heavy
	Sunshine ...	Abundant	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 8 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 3	2 * 2	2 * 1	3 * 1	2 * 2	3 * 2	2 * 3	2 * 3	3 * 2	2 * 2	2 * 3	4 * 1
	Rainfall ...	2 * 5	1 * 3	3 * 3	2 * 2	1 * 2	1 * 2	0 * 5	3 * 4	2 * 4	0 * 4	3 * 3	4 * 1
	Sunshine ...	3 * 1	3 * 1	3 * 2	4 * 1	3 * 1	5 * 1	2 * 2	4 * 1	3 * 2	2 * 1	1 * 2	1 * 4

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10105 / 450 Wy. & S., Ltd 11–11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
FORTY-THIRD WEEK—October 22nd to October 28th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	59	21	46·1	37·0	41·5	− 3·4	11	− 19	20	+ 9	5	0	0·67	−0·52	23	+ 6	34	+10
Eastern																		
1. SCOTLAND, EAST	58	23	47·2	36·2	41·5	− 2·4	15	− 17	23	+ 9	5	+ 1	1·25	+0·57	17	− 1	26	− 1
2. ENGLAND, N.E.	58	31	50·7	41·7	46·1	− 0·3	30	− 8	1	− 5	5	+ 1	1·02	+0·29	15	− 3	22	− 5
3. ENGLAND, EAST	60	32	54·0	43·4	48·5	+ 1·4	46	+ 2	0	− 7	5	+ 1	0·87	+0·25	20	− 1	28	− 2
4. MIDLAND COUNTIES	61	31	52·2	40·8	46·3	+ 0·2	35	− 5	3	− 6	4	0	0·91	+0·26	17	− 1	25	− 1
5. ENGLAND, S.E.	61	29	54·9	43·9	49·3	+ 0·7	51	− 1	0	− 5	5	+ 1	1·83	+1·06	17	− 5	24	− 7
Western																		
6. SCOTLAND, WEST	57	21	49·4	37·8	43·4	− 2·7	27	− 11	12	+ 4	4	0	0·52	−0·59	16	− 2	23	− 2
7. ENGLAND, N.W.	58	27	50·8	42·0	46·3	− 0·9	30	− 13	0	− 5	5	+ 1	1·36	+0·50	16	− 2	23	− 2
8. ENGLAND, S.W.	60	29	53·9	44·4	49·0	+ 0·2	49	− 3	0	− 4	6	+ 2	1·69	+0·66	22	+ 2	32	+ 3
9 IRELAND, NORTH	58	26	51·5	40·7	45·9	− 0·7	33	− 7	4	− 2	5	0	1·00	+0·15	21	+ 2	31	+ 2
10. IRELAND, SOUTH	58	28	53·0	41·1	46·9	− 1·2	38	− 11	3	− 2	7	+ 3	1·27	+0·38	21	0	29	0
11. ENGLISH CHANNEL	61	45	56·4	49·5	52·9	+ 0·6	76	+ 4	0	0	7	+ 2	2·13	+1·21	16	− 9	22	−12
THE SEASON (Autumn).—Aggregates, &c., for the Period of 8 Weeks, September 3rd to October 28th, 1911.																		
0. SCOTLAND, NORTH	68	21	*	*	*	*	387	− 39	30	− 2	32	− 7	5·07	−4·05	170	+ 6	26	+ 1
Eastern																		
1. SCOTLAND, EAST	77	23	*	*	*	*	428	− 29	54	+14	25	− 7	3·30	−1·71	208	+ 17	32	+ 3
2. ENGLAND, N.E.	89	31	*	*	*	*	563	+ 25	5	−11	27	− 2	3·90	−0·57	245	+ 32	38	+ 5
3. ENGLAND, EAST	93	32	*	*	*	*	710	+ 95	0	−20	25	− 3	3·89	−0·41	281	+ 45	43	+ 7
4. MIDLAND COUNTIES	94	30	*	*	*	*	604	+ 43	11	−16	24	− 4	3·50	−0·99	246	+ 37	38	+ 6
5. ENGLAND, S.E.	91	29	*	*	*	*	745	+ 65	1	−12	24	− 3	5·12	+0·10	309	+ 68	48	+11
Western																		
6. SCOTLAND, WEST	70	21	*	*	*	*	487	− 18	27	+ 5	24	− 8	4·05	−4·18	215	+ 19	33	+ 3
7. ENGLAND, N.W.	85	27	*	*	*	*	577	+ 5	6	− 5	25	− 5	6·07	−0·26	250	+ 51	39	+ 8
8. ENGLAND, S.W.	91	28	*	*	*	*	717	+ 74	0	− 9	27	− 4	5·45	−1·48	266	+ 37	41	+ 6
9. IRELAND, NORTH	73	26	*	*	*	*	554	+ 25	5	− 9	27	− 9	3·87	−2·54	217	+ 30	33	+ 5
10. IRELAND, SOUTH	82	28	*	*	*	*	626	+ 28	3	− 9	30	− 1	6·15	+0·07	236	+ 17	36	+ 3
11. ENGLISH CHANNEL	89	45	*	*	*	*	922	+114	0	0	29	− 5	7·26	+1·30	278	− 4	43	− 1
THE YEAR.—Aggregates, &c., for the Period of 43 Weeks, January 1st to October 28th, 1911.																		
0. SCOTLAND, NORTH	84	14	*	*	*	*	2143	+163	445	−144	176	−23	36·82	−3·72	1186	+138	30	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2387	+160	546	−114	150	−15	18·61	−5·97	1380	+136	35	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	2927	+439	376	−115	130	−19	16·79	−3·14	1483	+135	38	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	3396	+521	409	−132	128	−16	15·54	−3·67	1693	+229	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3227	+430	426	−134	112	−31	13·81	−7·44	1479	+172	38	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3472	+373	362	− 32	112	−25	16·47	−4·66	1815	+331	47	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2699	+291	374	− 73	150	−22	28·66	−8·42	1453	+176	37	+ 5
7. ENGLAND, N.W.	90	17	*	*	*	*	3003	+364	320	− 77	131	−27	23·20	−4·34	1581	+285	41	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3323	+388	297	− 13	125	−31	22·48	−7·10	1704	+257	44	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2745	+229	307	− 52	147	−41	21·66	−8·61	1410	+232	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3201	+317	298	+ 27	157	− 9	25·56	−5·70	1501	+174	39	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3781	+387	135	+ 26	132	−35	21·59	−3·05	1887	+128	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°		Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	54	22nd	30	25, 26, 28th	44·2	35·7	39·8	—	6	23	7	0·59	—	19·0	—	30	—	Baltasound.
	a Lerwick	55	22nd	?30	28th	44·0	38·1	41·0	− 4·0	6	15	5	0·19	—	26·3	+ 9·8	41	+15	Deerness.
	a Stornoway	59	22nd	31	28th	46·9	38·3	42·5	− 2·6	19	10	6	1·40	+ 0·07	26·1	+ 9·1	40	+14	Stornoway.
	a Castlebay, Barra Isd.	57	22nd	37	26th, 28th	49·3	43·3	46·2	− 1·0	29	0	6	0·85	—	21·8	—	37	—	Castlebay.
	a Wick	54	22nd	28	28th	46·0	39·6	42·7	− 2·4	15	7	6	0·39	− 0·33	*	*	*	*	*
	p Strathpeffer.. ..	53	22nd	25	28th	45·7	35·6	40·5	− 3·7	10	24	7	0·93	+ 0·28	13·5	− 4·9	20	− 7	Strathpeffer.
	p Glencarron .. S	59	22nd	24	28th	45·7	35·5	40·5	− 2·9	10	25	5	0·68	− 1·45	*	*	*	*	*
	p Fort Augustus S	54	22nd	21	28th	46·9	36·3	41·4	− 3·4	14	22	4	0·48	− 0·49	25·0	+12·6	37	+19	Fort Augustus.
b, Mainland.	p Fort William S	58	22nd	24	28th	47·8	35·9	41·7	− 4·0	16	24	4	0·64	− 1·13	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	58	22nd	29	27th	47·2	34·9	40·9	− 4·3	15	27	6	1·32	+ 0·55	24·1	—	36	—	Gordon Castle.
	a Nairn	52	22nd	28	28th	43·3	36·4	39·8	− 5·1	4	20	6	1·32	+ 0·79	26·5	—	40	—	Nairn.
	a Aberdeen	54	22nd	31	28th	47·4	38·9	43·0	− 2·5	20	9	5	1·76	+ 1·09	18·0	− 2·3	27	− 3	Aberdeen.
	a Balmoral .. S	56	22nd	23	28th	48·9	33·6	41·0	− 0·5	19	32	4	1·14	+ 0·26	14·6	—	22	—	Crathes S.
	p Crieff .. .. S	54	22nd	27	26th	48·3	35·7	41·8	− 3·5	18	25	4	0·48	− 0·44					Balruddery.
	a Leith	56	22, 23, 24th	33	28th	49·9	40·1	44·9	− 2·0	28	5	4	0·95	+ 0·48	*	*	*	*	*
	p West Linton.. S	54	22nd	23	28th	46·3	33·9	39·9	− 3·7	12	30	5	1·28	—	14·1	—	21	—	West Linton.
	p Marchmont .. S	55	23rd	32	26th, 28th	46·6	35·7	41·0	− 3·1	13	24	6	1·71	+ 0·88	10·6	− 1·9	16	− 3	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	57	23rd	32	26th	48·4	39·6	43·9	− 1·9	23	7	7	2·19	+ 1·34	8·1	—	12	—	Cockle Park.
	a Shields	58	23rd	37	28th	50·1	41·7	45·8	− 1·0	28	1	4	0·79	+ 0·11	8·8	− 5·2	13	− 8	Newcastle.
	p Durham	58	23rd	32	28th	49·1	40·0	44·4	− 1·1	25	6	4	1·25	+ 0·53	12·4	− 6·0	18	− 9	Durham.
	p Rounton .. M	57	23rd	31	28th	49·2	40·0	44·5	− 0·4	26	6	7	1·18	+ 0·45	*	*	*	*	*
	p Scarborough.. M	57	23rd	41	26th	51·9	44·1	47·9	+ 0·5	41	0	7	0·22	− 0·53	16·7	—	24	—	Scarborough.
	p York	58	22nd	34	28th	52·0	41·9	46·8	+ 0·3	34	0	4	1·14	+ 0·56	17·6	+ 0·6	26	+ 1	York.
b, South.	a Spurn Head	55	22nd, 23rd	41	26th, 28th	51·7	45·3	48·4	0·0	45	0	4	0·76	+ 0·23	*	*	*	*	*
	a Lincoln	57	23rd	36	28th	52·2	41·8	46·9	+ 0·3	35	1	5	0·72	+ 0·17	21·8	—	32	—	Skegness.
	a Fulbeck	56	23rd	33	28th	51·4	41·1	46·1	− 0·2	32	3	4	0·90	+ 0·35	15·4	—	22	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	59	22nd	35	26th	54·0	43·4	48·5	+ 1·2	46	0	6	0·82	—	20·9	—	30	—	Lowestoft.
	p Hillington .. M	57	23rd	33	26th	52·5	41·7	46·9	+ 0·1	36	1	5	1·19	+ 0·51	23·4	—	34	—	Cromer.
	a Yarmouth	58	22nd	38	26th	54·1	45·0	49·4	+ 1·4	52	0	4	0·61	− 0·07	17·9	− 1·4	26	− 2	Hillington.
	a Norwich	57	22nd, 23rd	34	26th	53·4	43·2	48·2	+ 1·8	43	0	5	0·91	—	21·0	—	30	—	Yarmouth.
	p Geldeston	60	23rd	35	26th	55·3	43·5	49·2	+ 1·5	50	0	6	0·76	+ 0·11	*	*	*	*	*
	p Cambridge	59	22nd, 23rd	32	26th	54·1	42·0	47·9	+ 0·8	41	0	3	0·63	+ 0·10	20·1	− 1·5	29	− 2	Geldeston.
b, South.	a Felixstowe	59	22nd	39	26th	55·4	46·0	50·6	+ 1·7	60	0	3	0·56	—	20·2	− 1·2	29	− 2	Cambridge.
	a Clacton-on-Sea ..	59	22nd	40	26th	54·7	46·3	50·4	+ 1·5	59	0	3	0·47	—	24·7	—	35	—	Felixstowe.
	a Rothamsted ..	58	22nd	33	26th	52·7	41·2	46·8	+ 0·7	37	2	5	1·05	+ 0·38	18·9	—	27	—	Clacton.
	a Shoeburyness ..	60	22nd	39	28th	54·9	46·4	50·5	+ 1·3	60	0	4	0·46	0·00	19·4	− 2·3	28	− 3	Rothamsted.
	p Tottenham	59	22nd	37	26th, 28th	55·5	44·1	49·6	+ 1·9	53	0	4	1·41	—	18·7	—	47	—	Southend.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	54	22nd	34	28th	48·1	40·6	44·2	− 1·2	21	4	5	1·42	+ 0·68	16·2	—	23	—	Tottenham.
	a Bawtry	56	22nd, 23rd	32	28th	52·1	40·0	45·9	− 0·1	36	6	4	0·63	+ 0·11	19·7	—	29	—	Harrogate.
	p Buxton .. M	51	23rd	30	28th	47·1	38·5	42·7	− 1·0	20	10	5	1·15	− 0·08	16·8	− 0·3	24	− 1	Worksop.
	a Nottingham ..	57	23rd	34	26th	52·4	40·9	46·5	− 0·2	36	3	4	0·90	+ 0·37	13·0	—	19	—	Buxton.
	p Birmingham, Edgbn	57	22nd	37	26th, 28th	51·3	41·8	46·4	− 0·1	32	1	4	0·73	+ 0·13	15·8	—	23	—	Nottingham.
	a Raunds .. M	59	22nd, 23rd	33	26th	53·8	41·0	47·2	+ 0·7	41	3	4	0·77	—	11·6	—	17	—	Birmingham.
	a Oxford	58	22nd	37	28th	53·7	43·1	48·2	+ 1·0	43	0	3	0·52	− 0·08	*	*	*	*	*
b, West.	a Cheadle .. M	53	22nd, 23rd	31	27th	49·4	38·0	43·5	− 1·7	27	11	4	1·35	+ 0·65	18·1	− 2·3	26	− 3	Oxford.
	p Shrewsbury	58	22nd	33	28th	53·0	39·7	46·2	− 0·7	39	6	5	0·92	—	14·2	—	21	—	Sheffield.
	a Hereford .. M	61	22nd	33	26th	53·6	40·9	47·1	+ 0·1	40	3	4	0·42	− 0·17	*	*	*	*	*
	a Cirencester	55	22, 23, 24th	32	26th	51·9	39·9	45·7	0·0	35	6	5	1·05	+ 0·37	*	*	*	*	*
	a Bath	59	22nd	36	26th, 27th	55·1	43·0	48·9	+ 0·7	48	0	3	1·33	+ 0·66	19·8	− 0·6	28	− 1	Cirencester.
															22·9	—	33	—	Bath.
															13·8	—	20	—	Ramsgate.
5. ENGLAND, S.E... ..	p Kew	60	22nd	33	26th	54·4	42·7	48·4	+ 0·9	45	0	5	1·46	+ 0·86	20·2	+ 1·5	29	+ 2	Kew.
	a Marlborough ..	58	22nd	30	26th	53·5	40·3	46·7	+ 1·1	40	5	4	0·64	− 0·13	18·3	− 1·4	26	− 2	Marlborough.
	a Margate	60	22nd	40	26th	55·5	46·8	51·0	+ 1·6	63	0	4	0·98	+ 0·35	12·0	− 9·8	17	−14	Margate.
	a Wisley, Surrey ..	60	22nd	34	26th	54·9	42·8	48·7	+ 0·4	47	0	5	1·49	—	21·7	—	31	—	Wisley.
	a Swarraton .. M	57	22nd	29	26th	52·9	40·6	46·6	+ 0·1	38	4	6	1·34	+ 0·54	17·9	—	26	—	Worthing.
	a Tunbridge Wells M	58	22nd	36	26th, 28th	53·1	42·4	47·6	+ 0·2	39	0	6	1·66	+ 0·85	15·9	− 5·9	23	− 8	Tunbridge Wells.
	a Dungeness	61	22nd	38	26th	56·9	46·3	51·4	+ 1·2	66	0	6	2·78	+ 2·09	12·0	—	17	—	Littlestone.
	p Hastings	60	23rd	34	26th	56·0	45·0	50·3	+ 0·4	58	0	6	2·85	+ 2·02	12·1	−12·2	17	−17	Hastings.
	p Southampton ..	59	22nd, 23rd	34	26th	55·3	44·3	49·6	+ 0·3	53	0	5	2·31	+ 1·49	21·6	− 0·9	31	− 1	Southampton.
	a Ventnor	60	22nd	41	28th	56·8	47·8	52·2	+ 1·1	71	0	6	2·76	+ 2·22	14·7	−10·0	21	−14	Ventnor.
															12·6	−11·2	18	−16	Eastbourne.
LONDON .. — ..	a Westminster ..	62	22nd	38	26th	56·3	45·0	50·5	+ 3·1	60	0	3	1·20	+ 0·61	17·1	+ 3·5	24	+ 5	Westminster.
	a Greenwich	61	22nd	35	26th	55·4	43·6	49·3	+ 1·7	51	0	5	1·58	+ 1·02	19·3	+ 1·2	28	+ 3	Greenwich.
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	57	22nd	24	28th	48·9	36·6	42·6	− 3·9	27	15	4	0·49	− 0·67	*	*	*	*	*
	p Glasgow	54	22nd, 23rd	30	28th	47·6	39·1	43·2	− 2·1	21	8	3	0·37	− 0·41	12·4	− 1·2	18	− 2	Glasgow.
	p Rothesay .. S	57	24th	29	28th	49·6	37·6	43·4	− 3·1	28	12	5	0·45	− 0·53	*	*	*	*	*
	a Kilmarnock	57	22nd	21	28th	49·0	34·3	41·4	− 4·4	20	30	3	0·14	—	19·8	—	29	—	Kilmarnock.
	a Colmonell .. S	57	22nd, 24th	27	28th	51·5	38·1	44·6	− 1·4	35	11	6	0·57	− 0·51	*	*	*	*	*
	p Dumfries .. S	56	23rd	32	28th	48·9	38·1	43·3	− 2·8	25	11	3	0·45	− 0·40	15·5	—	23	—	Dumfries.
	p Cally, Gatehouse S	55	22nd	27	28th	49·6	36·8	43·0	− 2·9	29	15	5	0·47	− 0·67	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	54	22nd	32	28th	50·0	41·4	45·6	− 1·9	28	2	5	1·21	+ 0·15	19·1	− 1·9	28	− 3	Douglas.
															16·0	—	23	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	56	22nd	28	28th	49·0	38·9	43·8	− 2·1	26	9	6	0·67	− 0·26	15·5	—	23	—	Aspatria.
	p Newton Rigg ..	54	22nd	27	28th	48·7	37·8	43·1	− 1·5	25	12	5	0·83	− 0·04	12·6	− 4·6	19	− 7	Newton Rigg.
	p Stonyhurst	58	23rd	34	28th	50·4	41·1	45·6	0·0	29	3	5	1·47	+ 0·40	13·9	− 3·5	20	− 5	Stonyhurst.
	p Blackpool .. M	55	22nd, 23rd	33	28th	50·9	42·0	46·3	− 1·2	30	0	5	1·55	+ 0·68	16·3	− 2·2	24	− 3	Blackpool.
	p M'nch'ster, Prestwich	54	22nd, 23rd	35	28th	50·5	41·9	46·1	+ 0·1	29	0	5	1·19	+ 0·22	13·5	+ 0·4	20	+ 1	Prestwich.
	a Liverpool (Bidston)	56	23rd	36	28th	51·0	43·1	46·9	− 1·2	34	0	5	1·59	+ 0·84	13·5	—	20	—	Liverpool.
	a Hawarden Bridge ..	57	22nd, 23rd	35	28th	52·2	43·5	47·7	− 0·6	40	0	6	0·98	+ 0·31	17·0	− 0·6	25	− 1	Southport.
															19·5	—	28	—	Rhyl.
b, NORTH WALES ..	p Llandudno .. M	55	22nd, 23rd	41	28th	51·8	45·5	48·6	− 0·9	46	0	7	1·91	+ 1·07	17·9	+ 0·2	26	0	Llandudno.
	a Holyhead	57	22nd	43	27th, 28th	51·7	46·6	49·1	− 0·4	50	0	5	1·26	+ 0·36	17·6	—	25	—	Aberdovey.
	p Bettws-y-Coed ..	57	22nd	31	28th	51·6	39·7	45·5	− 3·1	34	6	5	2·19	—	15·6	—	23	—	Bettws-y-Coed.
															18·7	—	27	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	55	22nd	29	26th	51·5	38·4	44·8	− 0·7	35	10	5	2·52	—	17·7	—	25	—	Llangammarch Wells.
	a Pembroke	58	26th	39	28th	54·4	46·4	50·3	− 0·1	58	0	7	1·85	+ 0·96	27·7	+ 6·5	40	+ 9	Pembroke.
	p Cardiff	58	22nd	37	26th	53·5	42·7	47·9	+ 0·7	41	0	6	1·30	+ 0·26	21·7	—	31	—	Cardiff.
															27·2	+ 5·2	39	+ 8	Tenby.
b, ENGLAND, S.W. ..	a Clifton	58	22nd, 24th	38	28th	53·9	45·9	49·8	+ 2·1	55	0	5	1·03	+ 0·20	20·1	—	29	—	Clifton.
	a Shaftesbury .. M	57	22nd	36	28th	52·0	42·3	47·0	− 0·3	35	0	6	0·89	+ 0·08	*	*	*	*	*
	a Arlington	56	22nd, 23rd	38	26th	52·4	43·7	47·9	+ 0·5	41	0	6	1·96	+ 0·48	23·4	+ 0·1	33	0	Newquay.
	a Cullompton .. M	60	22nd	32	26th	54·3	42·3	48·1	+ 0·1	43	0	7	2·28	+ 1·42	21·8	+ 2·5	31	+ 4	Cullompton.
	a Portland Bill ..	60	22nd	42	28th	56·9	47·9	52·3	+ 1·3	72	0	6	1·70	—	15·8	—	23	—	Weymouth.
	p Plymouth	59	23rd	39	26th	56·0	47·1	51·4	+ 1·1	66	0	6	1·71	+ 0·85	19·0	− 3·6	27	− 5	Plymouth.
	p Falmouth	56	22nd, 23rd	42	28th	54·2	47·4	50·7	0·0	61	0	7	1·63	+ 0·53	28·4	+ 3·5	41	+ 5	Falmouth.
															19·2	—	27	—	Salcombe.
															24·2	+ 1·7	35	+ 3	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	55	22nd	40	26, 27, 28th	50·1	43·9	46·9	− 1·0	34	0	6	0·98	+ 0·25	*	*	*	*	*
	a Blacksod Point ..	57	22nd, 25th	39	28th	53·4	44·3	48·7	− 0·4	47	0	6	1·78	+ 0·60	*	*	*	*	*
	p Markree Castle ..	58	22nd	26	28th	52·7	35·5	43·9	− 2·4	41	18	6	0·94	− 0·01	23·1	+ 4·9	34	+ 7	Markree Castle.
	a Birr Castle	55	22nd, 23rd	30	28th	52·0	38·1	44·8	− 1·3	36	11	7	1·32	+ 0·67	21·4	+ 1·0	31	+ 1	Birr Castle.
b, East.	p Armagh	54	22nd, 24th	28	28th	50·3	38·7	44·3	− 2·0	30	9	4	0·56	− 0·07	19·0	0·0	28	0	Armagh.
	a Donaghadee	55	22nd	39	25th, 26th	50·4	43·6	46·9	− 0·9	34	0	2	0·42	− 0·24	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	57	22nd	35	28th	51·6	41·8	46·6	− 1·7	33	1	6	1·17	+ 0·57	19·4	− 3·2	28	− 5	Phœnix Park.
	a Kilkenny	55	22nd, 23rd	28	25th	52·6	38·1	45·1	− 1·8	38	11	7	0·89	+ 0·22	*	*	*	*	*
	a Waterford	56	22nd	32	25th	52·7	39·7	46·0	− 2·2	38	6	7	1·11	+ 0·28	*	*	*	*	*
	a Birr Castle	55	22nd, 23rd	30	28th	52·0	38·1	44·8	− 1·3	36	11	7	1·32	+ 0·67	21·4	+ 1·0	31	+ 1	Birr Castle.
b, West.	a Foynes	55	22nd, 28th	36	28th	52·6	42·6	47·5	− 0·9	39	0	6	0·59	− 0·26	*	*	*	*	*
	a Cahir .. .. M	56	22nd, 23rd	29	25th	52·4	38·8	45·4	− 2·6	37	9	6	1·33	—	*	*	*	*	*
	a Killarney	58	24th	34	28th	54·5	42·5	48·3	− 0·2	44	0	7	1·32	+ 0·08	*	*	*	*	*
	a Valencia	56	22, 23, 28th	39	25th	54·6	44·1	49·2	− 1·2	50	0	7	2·26	+ 1·03	25·8	+ 4·3	37	+ 6	Valencia.
	a Roche's Point ..	58	22nd	38	25th	53·9	44·0	48·8	− 1·2	48	0	7	1·43	+ 0·51	15·6	—	22	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	58	23rd	45	25th	55·1	48·3	51·6	− 1·0	67	0	7	1·82	+ 1·02	25·0	+ 0·8	35	+ 1	Scilly.
	a Jersey, St. Aubins ..	61	22nd	46	28th	58·0	51·1	54·5	+ 1·9	88	0	7	1·29	+ 0·26	7·3	−18·6	10	−26	St. Helliers.
	a Guernsey	60	23rd	45	28th	56·1	49·2	52·6	+ 0·1	74	0	7	3·27	+ 2·22	14·5	− 8·3	20	−12	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 13·5 hrs. (−10·9 hrs.), 19 % (−16 %); *Bournemouth*, 21·1 hrs., 30 %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	44·5	—
0. — — ..				
0. — — ..				
1. Aberdeen	—	—	—	49·3
1. Crathes	3	22	46·3	49·5
1. Balmoral	4	20	—	—
1. West Linton.. ..	—	—	—	—
1. Marchmont ..	2	28	45·9	—
2. Cockle Park	2	27	45·6	49·7
2. Durham	1	30	—	—
2. York	—	—	51·1	53·2
2. Hull	1	30	49·1	52·6
2. Lincoln	—	—	49·1	52·9
2. Rauceby	1	28	49·8	54·2
3. Norwich	2	26	—	—
3. Yarmouth	—	—	50·1	55·4
3. Lowestoft	0	31	50·5	55·0
3. Cambridge	3	29	50·1	54·9
3. Clacton-on-Sea ..	—	—	52·9	55·5
3. Southend	1	29	53·3	—
3. Tottenham	0	32	—	57·1
4. Harrogate	1	29	49·0	50·9
4. Huddersfield ..	1	25	48·6	52·1
4. Buxton	2	25	48·8	52·1
4. Sheffield	1	30	48·9	52·0
4. Nottingham.. ..	1	29	47·8	53·4
4. Birmingham.. ..	1	30	48·6	52·2
4. Oxford	2	30	—	—
4. Hereford	2	28	—	—
4. Cirencester	1	30	50·2	53·8
4. Bath	—	—	52·5	56·0
5. Margate	0	34	52·5	55·0
5. Greenwich	2	28	—	—
5. Westminster ..	1	30	—	—
5. Kew	2	27	50·6	54·4
5. Canterbury	2	28	51·9	55·1
5. Tunbridge Wells ..	2	29	51·5	—
5. Wisley	3	24	50·3	54·9
5. Worthing	0	35	53·1	56·7
5. Portsmouth	1	30	52·4	56·9
6. Glasgow	1	21	—	—
6. Rothesay	—	—	—	50·2
6. Colmonell	2	24	—	—
6. Dumfries	2	24	47·7	51·9
6. Douglas	0	33	—	—
7. Aspatria	1	21	48·5	51·0
7. Newton Rigg ..	2	17	49·1	50·9
7. Burnley	2	25	48·2	51·0
7. Southport	1	24	48·0	52·4
7. Manchester City ..	0	31	49·7	53·9
7. Bettws-y-Coed ..	1	29	49·0	52·0
8. Llangammarch Wells	5	16	49·9	53·0
8. Cardiff	1	29	51·2	54·8
8. Clifton	0	35	—	—
8. Plymouth	0	34	53·3	—
9. Armagh	1	20	50·1	52·9
9. Markree	4	20	51·1	53·9
10. Dublin, Trin. Coll. ..	4	24	51·5	53·9
11. Guernsey, Brooklyn	0	34	54·8	58·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	—	—	—
	Kirkwall	46	43	45·1
	Wick	53	? 48	? 51·7
SCOTLAND E.	Cromarty	51	48	49·3
	Pennan Bay	50	47	49·5
	Aberdeen, Cove Bay ..	52	50	51·0
ENGLAND, N.E.	Burnmouth, Berwick ..	49	48	48·5
	Scarborough	54	45	51·2
ENGLAND, E.	Shipwash Lightship ..	57	54	55·6
	Margate‡	57	55	56·0
ENGLAND, S.E.	Eastbourne‡	58	54	55·9
SCOTLAND, W.	Lamlash	54	50	51·8
	Ballantrae	53	46	49·9
ENGLAND, N.W.	Port Erin	55	52	54·0
ENGLAND, S.W.	Newquay	58	56	57·3
	Scilly	53	52	52·2
	Plymouth‡	55	54	54·7
	Salcombe	58	55	56·3
IRELAND, N.W.	Sheephaven	53	52	52·4
	Teelin	55	47	52·0
IRELAND, S.W.	Cleggan	52	40	49·3
	Seafield	55	49	52·7
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point f water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution o temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

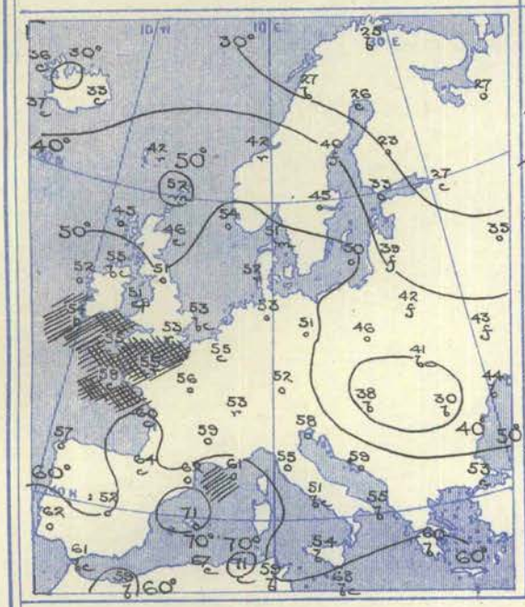
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 22nd October, 1911.

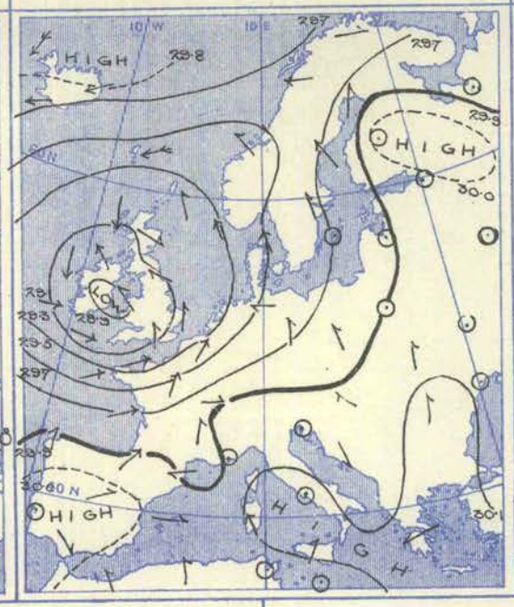
Temperature and Weather.

7 a.m.

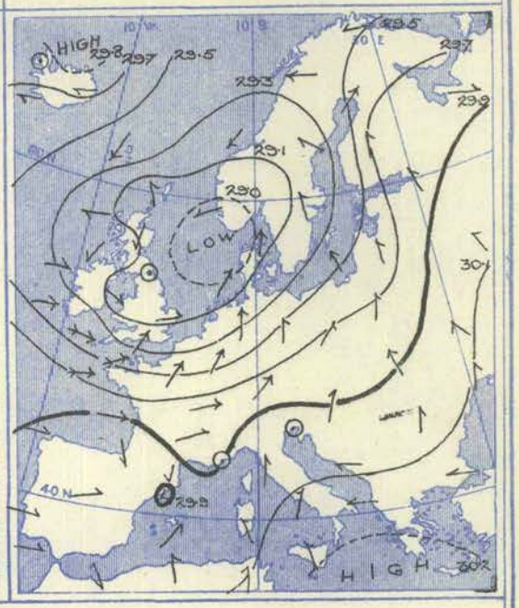


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough and rainy in Ireland, England, and the adjacent portion of the Continent, and rainy in some parts of Scandinavia; cloudy or overcast in most other regions, but fair to fine at many stations in the south of our area. Rain later in nearly all parts of these Islands, about 0·5 in. in several English localities, and considerable or heavy falls over the western countries of the Continent; nearly an inch at Cherbourg and 1·2 in. at Monaco.

Temperature fallen in the United Kingdom, risen in France, Germany, and Scandinavia. Morning readings ranging from a little above 70° at Palma, Barcelona, and Cape de Garde, and 68° at Malta and San Fernando to 60° in the south-west of France, about 50° in the north of England and the south of Scandinavia, to below 32° over a large area in the north and north-east of Europe, and to below 25° in places. Maxima during day 60° at a few stations in southern England and at several places in central Europe; above 70° over large districts in southern Europe, and about 80° in Algeria.

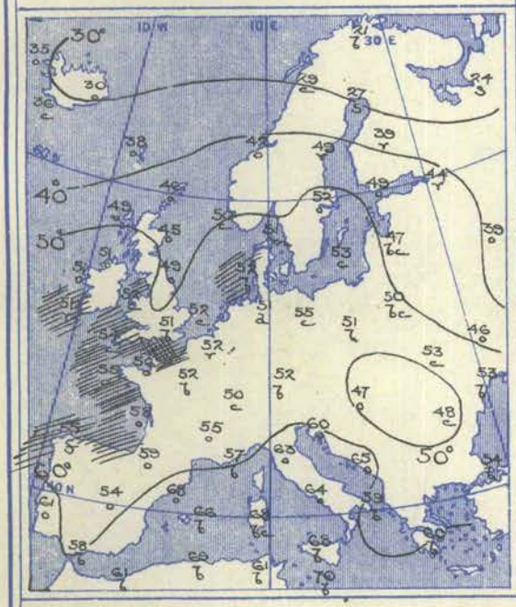
Wind in morning circulating cyclonically over these Islands and north-western and western Europe generally. Westerly to South-Westerly current strong to a gale on our western and southern coasts, and on the western and northern coasts of France, and an Easterly gale prevailing at Thorshavn. Light and rather variable airs general in the south and east of our area. Gale continuing all day and attaining the force of a whole gale on some parts of our south coast. Increasing to a strong breeze or high wind from the South-Westward in the Netherlands and Germany. Continuing very light in Scotland.

Barometer in morning below 28·9 in. in a large, deep depression centred over Ireland; above 30·1 in. over a considerable portion of southern Europe and nearly as high in Finland. Depression moving quickly in an east-north-easterly direction during day and some secondaries appearing in its rear over these Islands. Gradient increasing over the Netherlands, Germany, and Denmark, and remaining very steep over the English Channel region.

Monday, 23rd October, 1911.

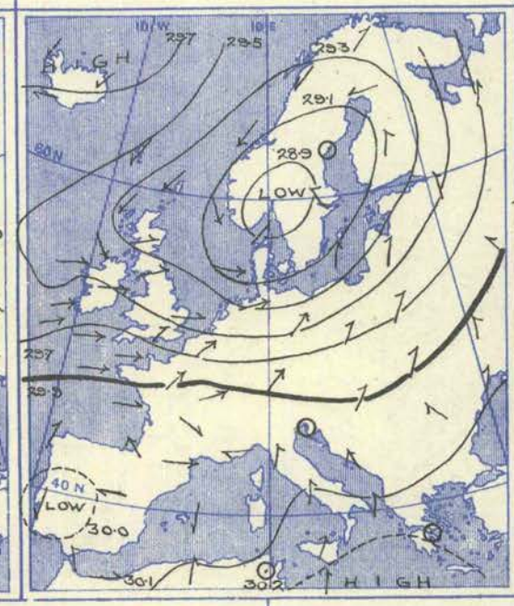
Temperature and Weather.

7 a.m.

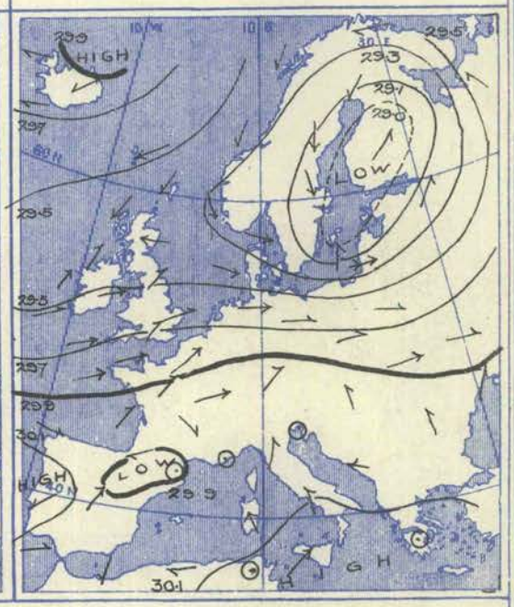


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning unsettled and rough over the northern half of our area, with rain in many places, and snow in the north of Sweden and at Archangel. Rain experienced later in most parts of these Islands, 0·96 in. at Dungeness and 1·13 in. at Aberdeen, and various quantities over a large portion of the Continent; about 1·0 in. at Nice, Monaco, and Gap, 1·38 in. at Cape Griz Nez and Biarritz, 0·6 in. at Lugano, 0·5 in. at Madrid, and also at Riga.

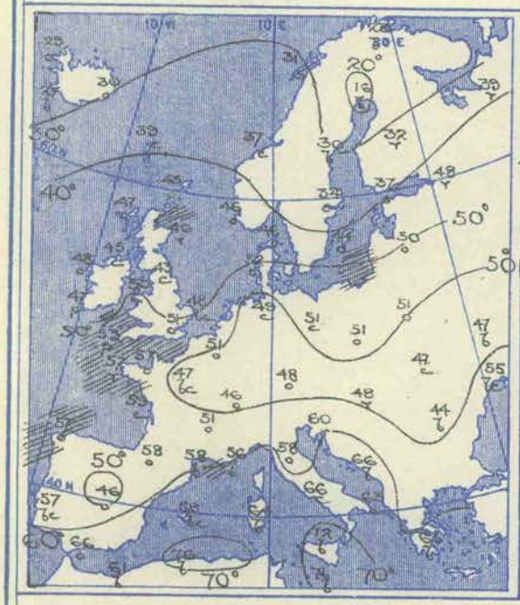
Temperature fallen in most parts of England and France, risen in northern Europe. Readings in morning 70° at Malta and Algiers and above 65° at many other southern stations; above 50° at most places in these Islands and in France, the Netherlands, and Germany, but below 32° in the far north and north-east of our area, 24° at Archangel and 21° at Vardö. Rising to 58° or 59° during day in many English localities, to above 60° in France and various parts of central Europe, to above 70° over the southern regions, and to 82° at some places in Algeria.

Wind in morning cyclonic except in the south-east of Europe. Westerly current strong in the English Channel region and in Denmark, with a gale at Havre, a strong South-Westerly breeze on the Baltic and a high wind from North-East at Christiansund. Increasing to a gale from the Westward later on the coast of Germany and from the North-Westward at Skudesnaes. Gale subsiding at Havre, but wind continuing fresh or strong on the channel generally.

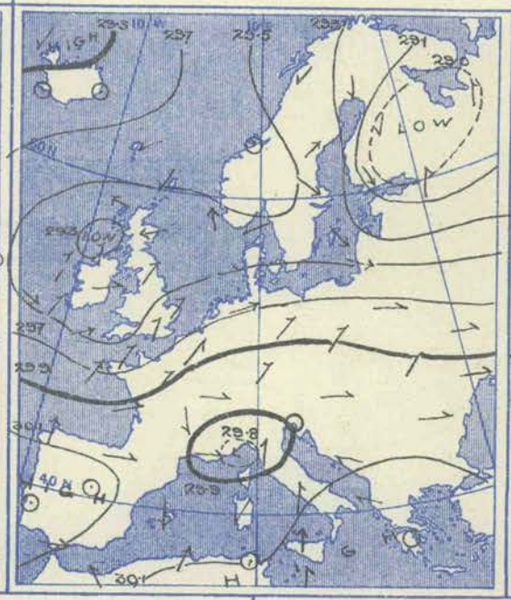
Barometer in morning below 28·9 in. in a large depression centred over the south of Norway; above 30·2 in. in the south-east of Europe and the north of Africa. Gradient steep or rather so over nearly the whole of our area except the southern countries. Depression travelling quickly in an easterly direction during day, and its central area undergoing considerable modification in form. A secondary disturbance appearing off the north-west of Ireland, and another developing over the Spanish Peninsula.

Tuesday, 24th October, 1911.

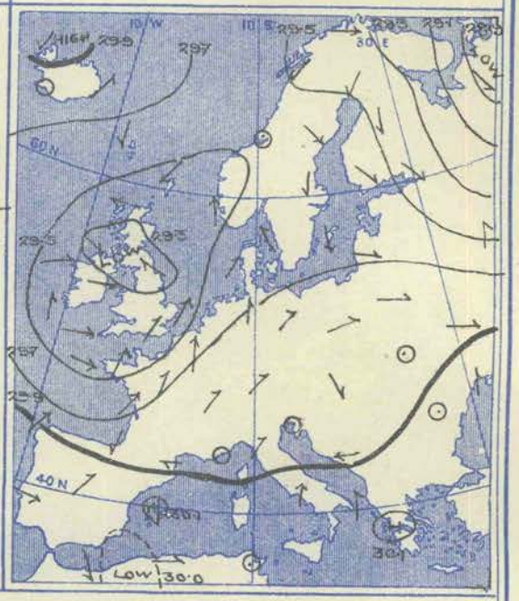
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very cloudy or quite overcast with rain in several localities in these Islands, the north of France, and the Netherlands, and also in the northern parts of Italy and Russia. Fair in most other regions, but overcast in places, with rain at Buda-Pesth and snow at Bodö. Considerable or large quantities of rain later over the United Kingdom and in many parts of the Continent. More than an inch in London and several other places in the south-east of England, 0·9 in. at Cape Gris Nez and Buda-Pesth, 1·9 in. at Trieste, and 2·2 in. at Cape Béarn. As much at 1·2 in. of snow at Kuopio.

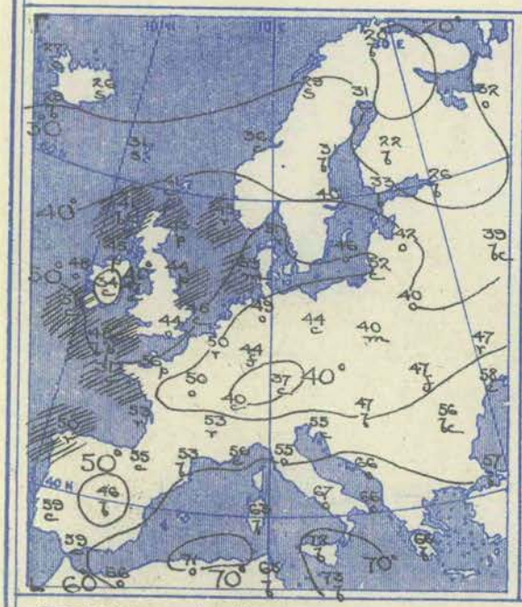
Temperature fallen over the western and north-western countries; risen in most other regions. Morning readings below 50° in almost all parts of these Islands, as well as in many localities in France and central Europe. Below 32° over the north-east of the Continent, and below 20° in the north of Sweden. Above 60° over a wide area on the Mediterranean, 71° at Malta, 72° at Palermo, and 76° at Algiers. Thermometer remaining below 55° all day at many of our own stations, and below 60° in Germany, but rising to above 75° at several places in southern Europe, to 86° at Palermo, and to 91° at Tunis.

Wind in morning cyclonic very generally. Moderate in most regions, but a strong breeze from South or South-West prevailing on the English and Bristol Channels, a high wind from West at Memel, and a strong breeze from South at Palermo. No great change during day over our area as a whole, but South-Westerly current increasing to a strong gale before midnight on the Straits of Dover. Southerly wind becoming rather stronger at Palermo.

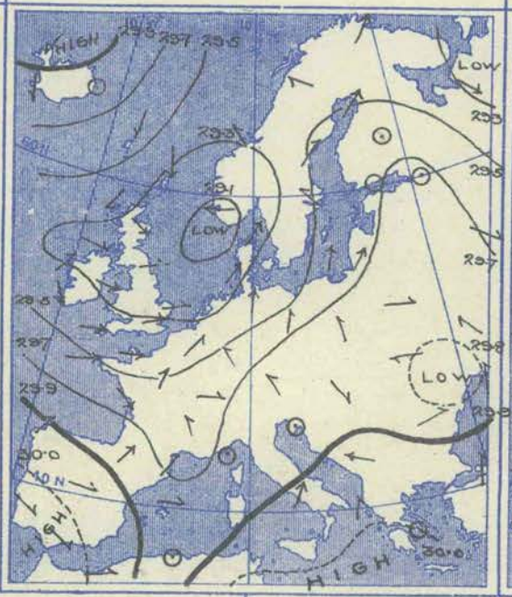
Barometer in morning above 30·3 in. in the Azores region and relatively high thence to Spain. Below 29·0 in. in a large depression over the north of Russia, and below 29·4 in. in a complex system over these Islands; below 29·8 in. in a small minimum in the south-east of France. The two main depressions both travelling eastward during day and little modification occurring in the general distribution of pressure.

Wednesday, 25th October, 1911.

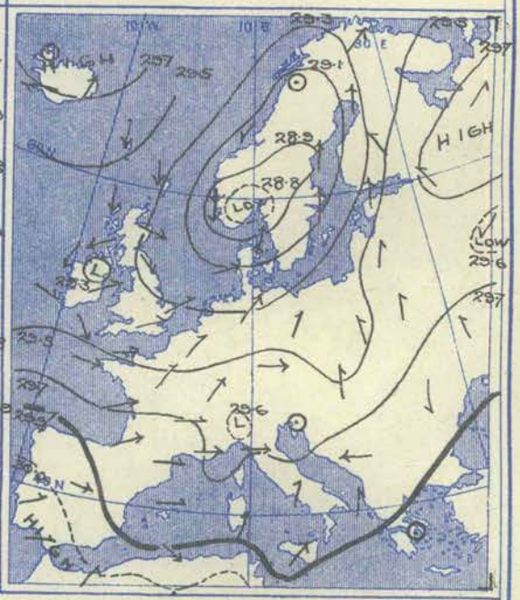
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning still very unsettled over all the western and north-western countries, with much cloud generally and rain in several places. Cloudy to fair in most other regions, but rainy at Kieff, and overcast in some localities elsewhere. Rain later over the greater part of the United Kingdom, with thunder and lightning at Liverpool. Snow experienced in the north of Scotland. Moderate to heavy rain falling over a large area on the Continent; 0·9 in. at Besançon, 0·8 in. at Rome, and 1·2 in. at Kharkoff; 0·95 in. of rain or snow at Haparanda. A thunderstorm occurring at Cape de Garde.

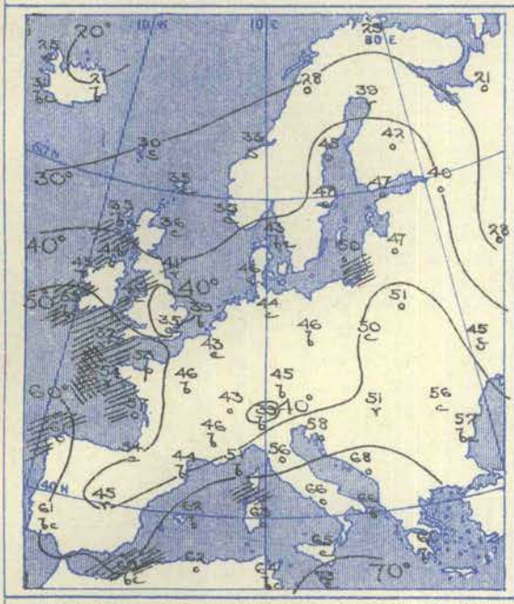
Temperature fallen in most parts of central Europe and the United Kingdom, changed little elsewhere. Morning readings ranging from above 70° at a few places in the far south, and above 60° over the Mediterranean generally to below 45° over the major portion of these Islands and a large area on the Continent, and to 32° or below in the north-east of Europe; as low at 18° at Uleaborg. Remaining below 55° in nearly all parts of England during day and also in the Netherlands, the east of France, and at Turin; rising to above 70° very generally in the extreme south, to 80° at Brindisi, and to 90° at Palermo and Tunis. Minima at night rather low over these Islands.

Wind in morning showing two distinct cyclonic circulations; Westerly current fresh to strong over the English Channel and Bay region, a fresh to high South-Westerly wind prevailing in Denmark, and a fresh to strong breeze from East in the south of Scandinavia. Little force elsewhere. Increasing to a gale from the Northward by evening on the south-west coast of Norway and from South in Christiania Fjord. A gale from South setting in at Roche's Point during night, and wind backing on our western coasts generally.

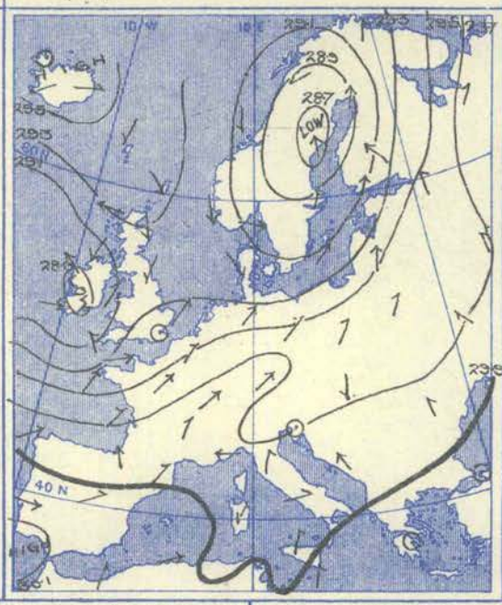
Barometer in morning above 30·3 in. in the Azores region; below 29·1 in. in a large depression centred over the North Sea, and below 29·3 in another system in the extreme north-east of our area. North Sea disturbance moving eastward and increasing greatly in intensity during day, and the surrounding gradients becoming much steeper. Another depression approaching Ireland from the Atlantic during night.

Thursday, 26th October, 1911.

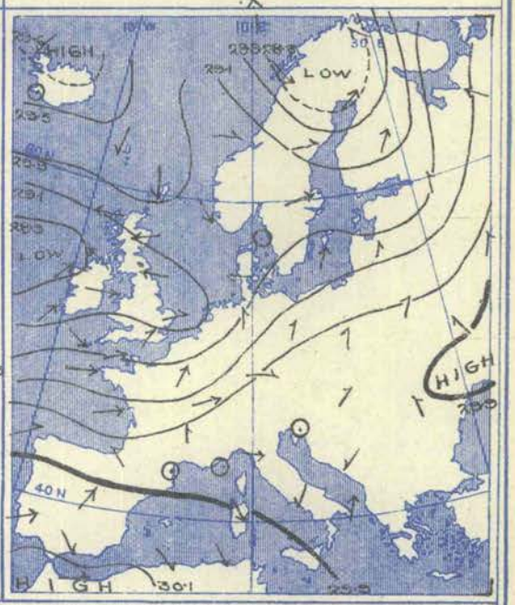
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning variable and unsettled over the United Kingdom and its vicinity, with rain or passing showers in several localities, and snow at Nairn and Thornhavn. Cloudy or overcast in most other regions, with rain in places over a very large area, and snow at Christiansund. Rain falling later in nearly all parts of these Islands, heavily in places, and also over the major portion of the Continent; more than an inch at some stations on the west coast of France. Thunderstorms at night at Valencia and Newquay, and lightning at a few of our other stations.

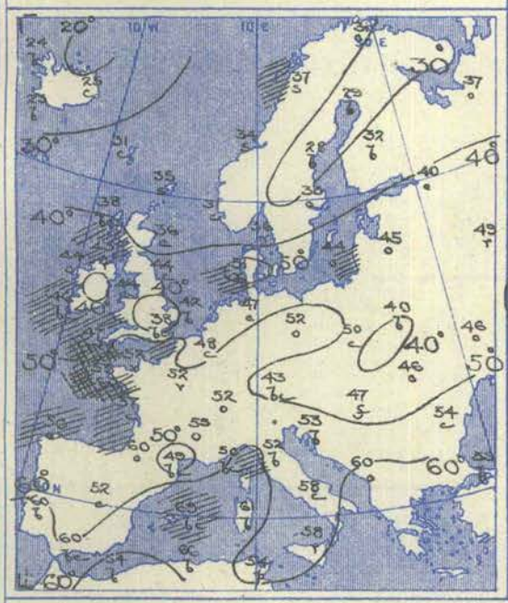
Temperature changed very irregularly. Morning readings ranging from 21° at Archangel, below 32° over a wide area in the north, and 32° at Nairn to about 50° at a few places in central Europe and the south-west of these Islands, to above 60° in the extreme south of our area, and to 73° at Malta. Maxima during day above 55° at some stations in this country, but only 37° at Nairn and 43° at Harrogate. Thermometer rising to 81° at Brindisi, 79° at Bucharest, 72° at Hermanstadt, and to above 70° in Algeria and the south of Spain. Frost at night in the north-east of Scotland.

Wind in morning cyclonic very generally both in Europe and on the Atlantic. Southerly current strong to high on our south-west coasts. Strong Southerly breezes prevailing over the Gulf of Bothnia and a high wind from the Northward at Skudesnaes. A high Westerly wind blowing at Leghorn. Strong to whole cyclonic gales general on the Atlantic between 400 to 600 miles to the westward of Ireland. Increasing to a gale or strong gale later on many parts of our western and southern coasts and to a high wind or gale on the Bay of Biscay. Becoming stronger from the Eastward in Scotland.

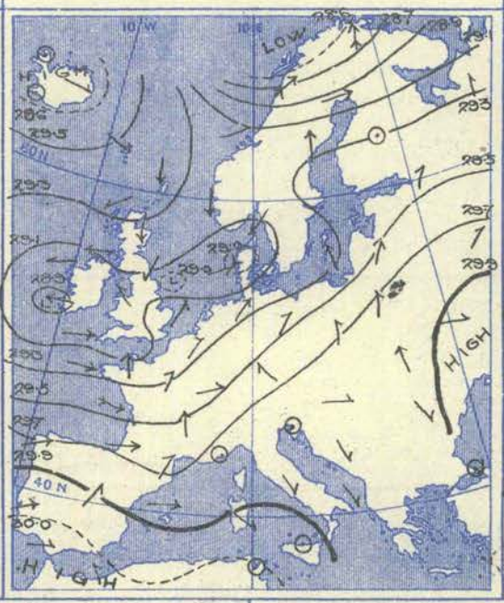
Barometer in morning above 30·2 in. in the Azores region; below 28·7 in. in a large depression over Sweden, below 28·9 in. in another over Ireland, and still lower in a third system on the Atlantic. Little change in the general distribution of pressure during day, but Scandinavian disturbance moving north-eastward, and both the Irish and Atlantic systems moving eastward. Gradient growing steeper in most regions, especially in Russia and Finland.

Friday, 27th October, 1911.

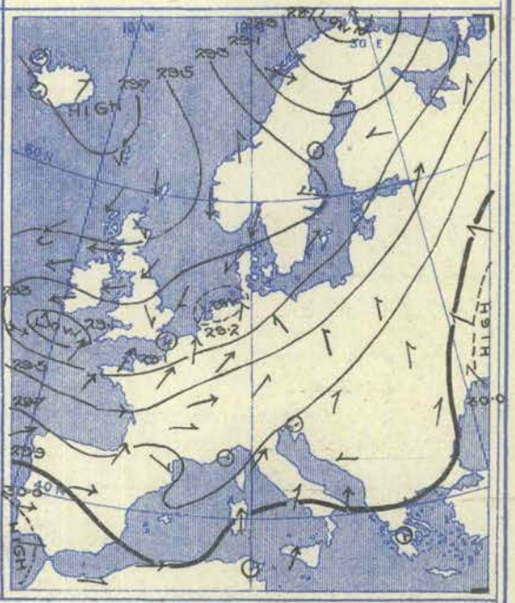
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning very cloudy or quite overcast in all the western and northern countries, as well as in central Europe, with rain in several localities. Mostly fair to fine in the south of our area, but rainy at Cape de Garde and Palermo. Rain experienced later over the major portion of our area. About 0·5 in. at Pembroke and at some places in the south of England, and as much as 1·4 in. at several stations in the north of France and also at Nice. A thunderstorm occurring at Rochefort and thunder locally in the south and south-east of England.

Temperature risen in France, the Netherlands, and Germany, fallen generally elsewhere. Morning readings below 32° over a considerable area in northern Europe and as low as 32° at Nairn; above 50° in France, Italy, and some parts of Germany, and above 60° at many places in the extreme south of our area. Remaining below 55° throughout day in nearly all parts of the United Kingdom, below 50° at many stations, and not exceeding 39° at Nairn. Maxima above 60° very generally in the south of Europe, above 70° in places, and as high as 88° at San Fernando. Frost at night in Scotland and central Ireland.

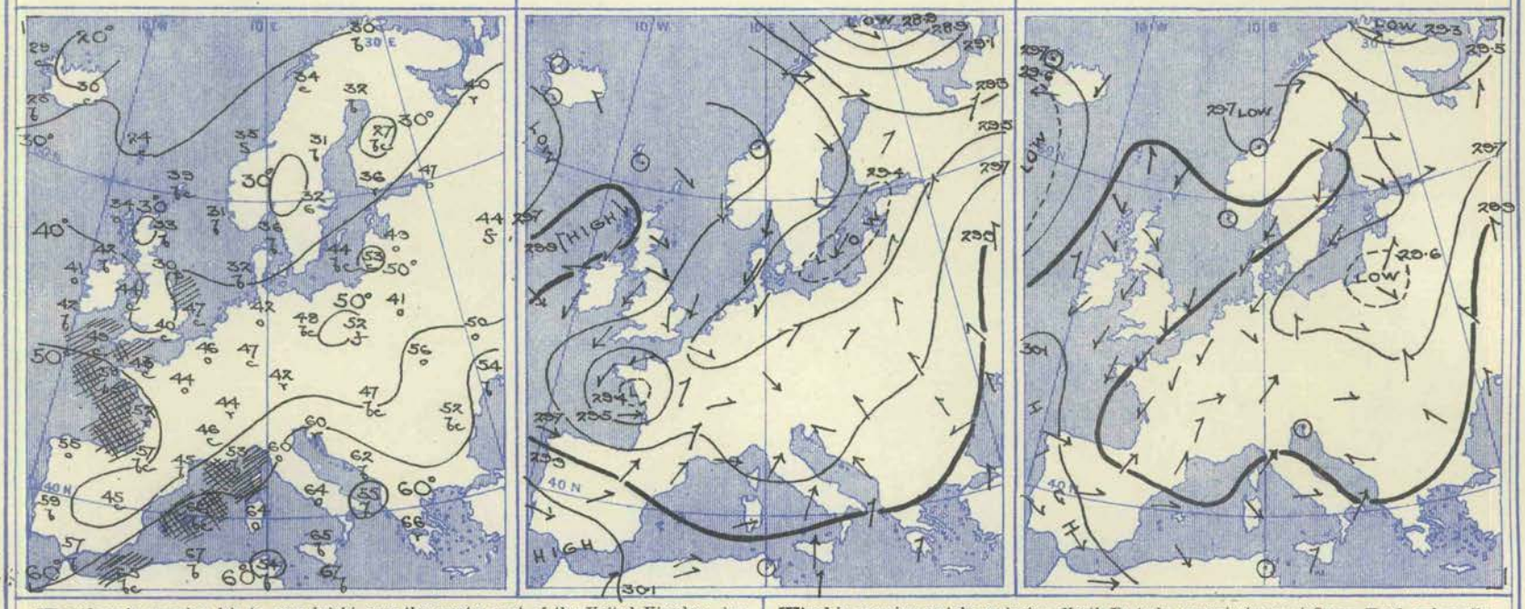
Wind in morning showing several complete or partial cyclonic circulations. Fresh to high in some parts of these Islands and beyond the North Sea, strong to a gale over the Bay of Biscay, and also in the north of Scandinavia; light to moderate elsewhere. Becoming more generally Easterly in these Islands during day and continuing strong to high in places. Increasing to a high wind from West at Palma and to a strong breeze from South at Palermo. Strong winds or gales from between North-East and North-West prevailing all day on the Atlantic as far west as the 25th meridian.

Barometer in morning above 30·3 in. in the Azores and above 30·0 in. in the south of Russia; below 28·6 in. in a very deep depression in the extreme north of Norway, and low in a band containing three distinct minima extending from beyond Ireland to Denmark. Northern depression moving north-eastward during day, and the three other barometric minima moving southward and decreasing in intensity. Pressure increasing very briskly in the north of these Islands.

Saturday, 28th October, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.



Weather in morning fair to very bright over the greater part of the United Kingdom, but showery on the north-east coast of England. Fair or fine at most places in the south of our area, but rainy at Patras. Variable elsewhere; fine in many localities, and overcast or rainy in others. Snow falling at Stockholm and Copenhagen. Rain experienced later over a large area on the Continent and in a few parts of these Islands; 0·8 in. at Bordeaux, 0·9 in. at Memel, and 1·1 in. at Bilbao.

Temperature fallen generally. Readings in morning below 32° in central Ireland and in many parts of Scandinavia and Finland, and below 50° over the greater portion of our area; above 60° on most shores of the Mediterranean, and above 65° at a few stations. Maxima during day below 50° in many English localities, and little above 40° in Scotland. Thermometer rising to 82° at Cape de Garde, 78° at Palermo, 77° at Bucharest, and above 70° at several other southern stations. Sharp frost at night in the inland parts of Great Britain; minimum at Nairn as low as 20°.

Wind in morning mainly cyclonic; North-Easterly current strong at Spurn Head and on the Dutch coast, and that from the Westward fresh to strong over a large area in southern Europe and on the Mediterranean; blowing a gale in the south of Sardinia. Not much force elsewhere but a strong breeze from North in the Skager Rack. No general change occurring during day, but a light breeze from South setting in at Blacksod Point, and a strong breeze from East in the south-west of Iceland. Westerly current increasing at Corunna and Biarritz, but gale subsiding at Cagliari.

Barometer in morning below 28·8 in. in a large depression in the far north of Scandinavia and below 29·4 in. in two other disturbances, one over Brittany and the other over the Baltic. Above 30·4 in. in the Azores and relatively high in a ridge extending thence to the Hebrides. Above 30·1 in. in the south-east of Russia. Both Baltic and Brittany depressions moving in a southerly direction during day and increasing in intensity. Barometer rising very briskly over these Islands generally, but slackening on our extreme western coasts.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	October 23rd, 2.45 p.m. to 3.25 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	286° 70% 240, 9	285·5° 70% 245, 15	282° 85% 270, 17	278° 90% 280, 19				277° 90% 280, 20	1,100	Overcast. Clear by 5 p.m. Clouds not reached.

APPARATUS USED IN THE KITE OR BALLOON ASCENT.

No. of Ascent.	
No. of Kites	
Area of Surface (sq. metres) ..	
Capacity of Balloon (cub. metres) ..	
Length of Wire (metres)	

South Kensington, London, S.W. *November 1st, 1911.*

W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

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THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 44. FORTY-FOURTH WEEK, SUNDAY, OCTOBER 29TH, TO SATURDAY, NOVEMBER 4TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d

I.—General Remarks.

Weather was in a very unsettled and stormy condition over the whole Kingdom. Rain fell daily over a large area, some of the amounts being very heavy. Late in the week thunderstorms occurred in several Scottish districts, and also at a few stations in the north-west of England.

Temperature differed little from the normal, but was rather above it in most of the English and Irish districts. The highest of the maxima were registered at some southern and south-western stations on November 4th, but as a rule they occurred on October 29th or 30th. The values ranged from 61° in England N.E., 60° in the English Channel, and 59° in most other districts, to 55° in Scotland N. The lowest of the minima were recorded on October 29th very generally, and ranged from 15° in Scotland E. (at Balmoral), 20° in England S.W., and 22° in Scotland N. to 37° in the English Channel. The lowest grass readings reported were 8° at Llangammarch Wells, 13° at Balmoral, 14° at Crathes, 15° at Birmingham, 16° at Newton Rigg and 18° at Burnley.

Mean Temperature of the Sea. On nearly all parts of the coast the water was colder than during the corresponding week of last year. The figures ranged from 56° at Newquay, 55° at Salcombe, and 53° at Port Erin, Eastbourne and the Shipwash Lightship, to 47° at Scarborough, Burnmouth and Ballantrae, and to 46° at Cromarty.

Rainfall exceeded the average in all districts excepting England N.E. and the English Channel, the excess being very large in Scotland, Ireland and the north-west of England. Falls of more than an inch in 24 hours occurred in many parts of Scotland, the north-west of England and Ireland, on October 29th very generally, and again later in a few parts of Scotland. The largest values on the former date were 1·72 in. at Cally, Gatehouse, 1·63 in. at Aspatria, 1·50 in. at Fort William, 1·45 in. at Rothesay, Douglas and Killarney, and 1·35 in. at Markree Castle, Kilmarnock and Poltalloch.

Bright Sunshine was less than the normal over the western parts of the Kingdom, but more in the eastern districts. The percentage of the possible duration ranged from 37 in England E., 36 in England S.E., 33 in the English Channel, and 31 in England N.E., to 15 and 10 respectively in Scotland W. and N.

Barometer and Wind. Barometric pressure underwent great and sudden changes, and the wind was generally very strong in force. Unusually large and deep depressions from the Atlantic extended over these islands and their neighbourhood, and as their centres moved in a general easterly or north-easterly direction between Scotland and Iceland, the wind current over the whole of the United Kingdom was between South and West. Severe gales were experienced on Sunday and Monday on most parts of the coast, and in a few localities in the north and west on Tuesday and Thursday. On Friday another serious increase took place, the force of a strong to whole gale being attained either on that or the following day over a very wide area; at Malin Head the force on Friday night is reported to have been that of a hurricane. During the passage of the storm centre across the Faeröe on Saturday morning the barometer at Thorshavn fell below 28·0 in.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 356.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very heavy	Very heavy	Moderate	Heavy	Heavy	Heavy	Very heavy	Very heavy	Heavy	Very heavy	Heavy	Moderate
	Sunshine ...	Scanty	Abundant	Abundant	Abundant	Moderate	Abundant	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 9 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 3	2 * 2	3 * 1	3 * 1	3 * 2	3 * 2	2 * 3	2 * 3	3 * 2	2 * 2	2 * 3	4 * 1
	Rainfall ...	3 * 5	2 * 3	3 * 3	3 * 2	2 * 2	2 * 2	1 * 5	4 * 4	3 * 4	1 * 4	4 * 3	4 * 1
	Sunshine ...	3 * 2	4 * 1	4 * 2	5 * 1	3 * 1	6 * 1	2 * 3	4 * 2	3 * 3	2 * 2	1 * 3	1 * 4

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10128 / 450 Wy. & S., Ltd 11—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FOURTH WEEK—October 29th to November 4th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	*	*	*	*	*	*	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	55	22	49·1	36·8	43·0	− 1·0	29	+ 2	15	+ 4	7	+ 1	3·58	+2·29	7	− 6	10	−10
Eastern																		
1. SCOTLAND, EAST	59	15	49·9	34·7	42·3	− 0·9	33	+ 5	20	+ 5	6	+ 1	1·90	+1·14	18	+ 3	27	+ 4
2. ENGLAND, N.E.	61	25	52·8	39·3	46·1	+ 0·5	40	+ 6	8	+ 1	6	+ 2	0·59	− 0·07	20	+ 4	31	+ 7
3. ENGLAND, EAST	59	26	54·2	39·4	46·9	+ 0·6	45	+ 6	7	− 1	5	+ 1	0·77	+0·20	25	+ 6	37	+ 9
4. MIDLAND COUNTIES	59	25	53·8	37·2	45·5	+ 0·1	45	+ 9	13	+ 3	7	+ 3	0·88	+0·22	17	+ 1	26	+ 2
5. ENGLAND, S.E.	59	25	55·4	39·6	47·5	− 0·5	49	+ 2	7	+ 2	6	+ 2	1·12	+0·31	24	+ 6	36	+ 9
Western																		
6. SCOTLAND, WEST	57	24	51·3	39·5	45·4	− 0·4	34	0	7	− 1	7	+ 2	3·89	+2·59	10	− 5	15	− 8
7. ENGLAND, N.W.	59	23	53·1	41·5	47·4	+ 0·8	40	+ 2	1	− 5	7	+ 2	2·27	+1·36	10	− 4	16	− 7
8. ENGLAND, S.W.	59	20	54·9	41·0	48·0	− 0·2	46	− 2	3	− 1	7	+ 2	1·64	+0·54	13	− 4	19	− 7
9 IRELAND, NORTH	58	30	52·5	40·2	46·4	+ 0·3	38	+ 2	5	− 2	6	+ 1	2·09	+1·15	13	− 4	20	− 6
10. IRELAND, SOUTH	59	28	54·3	41·7	48·0	+ 0·4	43	− 3	1	− 5	7	+ 2	1·81	+0·84	14	− 4	21	− 6
11. ENGLISH CHANNEL	60	37	56·9	46·4	51·7	+ 0·1	68	+ 1	0	0	6	+ 1	0·90	−0·05	23	+ 2	33	+ 2

THE SEASON (Autumn).—Aggregates, &c., for the Period of 9 Weeks, September 3rd to November 4th, 1911.

0. SCOTLAND, NORTH	68	21	*	*	*	*	416	− 37	45	+ 2	39	− 6	8·65	−1·77	177	0	25	0
Eastern																		
1. SCOTLAND, EAST	77	15	*	*	*	*	461	− 24	74	+19	31	− 6	5·20	−0·57	228	+ 22	32	+ 3
2. ENGLAND, N.E.	89	25	*	*	*	*	603	+ 31	13	−10	33	0	4·49	−0·64	265	+ 36	37	+ 5
3. ENGLAND, EAST	93	26	*	*	*	*	755	+101	7	−21	30	− 2	4·66	−0·21	306	+ 51	43	+ 7
4. MIDLAND COUNTIES	94	25	*	*	*	*	649	+ 52	24	−13	31	− 1	4·38	−0·77	263	+ 39	37	+ 5
5. ENGLAND, S.E.	91	25	*	*	*	*	794	+ 67	8	−10	30	− 1	6·24	+0·41	333	+ 74	46	+10
Western																		
6. SCOTLAND, WEST	70	21	*	*	*	*	521	− 18	34	+ 4	31	− 6	7·94	−1·59	225	+ 15	32	+ 2
7. ENGLAND, N.W.	85	23	*	*	*	*	617	+ 7	7	−10	32	− 3	8·34	+1·10	260	+ 47	36	+ 7
8. ENGLAND, S.W.	91	20	*	*	*	*	763	+ 72	3	−10	34	− 2	7·09	−0·94	279	+ 33	29	+ 5
9. IRELAND, NORTH	73	26	*	*	*	*	592	+ 27	10	−11	33	− 8	5·96	−1·39	230	+ 26	32	+ 4
10. IRELAND, SOUTH	82	28	*	*	*	*	669	+ 25	4	−14	37	+ 1	7·96	+0·91	250	+ 12	35	+ 2
11. ENGLISH CHANNEL	89	37	*	*	*	*	990	+115	0	0	35	− 4	8·04	+1·13	301	− 2	42	0

THE YEAR.—Aggregates, &c., for the Period of 44 Weeks, January 1st to November 4th, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	2172	+165	460	−140	183	−22	40·40	−1·43	1193	+132	30	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2420	+165	566	−109	156	−14	20·51	−4·83	1400	+141	35	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2967	+445	384	−114	136	−17	17·38	−3·21	1503	+139	38	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3441	+527	416	−133	133	−15	16·31	−3·47	1718	+235	44	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3272	+439	439	−131	119	−28	14·69	−7·22	1496	+173	38	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3521	+375	369	− 30	118	−23	17·59	−4·35	1839	+333	47	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2733	+291	381	− 74	157	−20	32·55	−5·83	1463	+171	37	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3043	+366	321	− 82	138	−25	25·47	−2·98	1591	+281	40	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3369	+386	300	− 14	132	−29	24·12	−6·56	1717	+253	44	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	2783	+231	312	− 54	153	−40	23·75	−7·46	1423	+228	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3244	+314	299	+ 22	164	− 7	27·37	−4·86	1515	+170	38	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	3849	+388	135	+ 26	138	−34	22·37	−3·22	1910	+130	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°		Day °	Day °		Ins.	Ins.	Hrs	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*51*	*30th*	*25*	*29th*	*47·5*	*38·1*	*42·8*	—	*22*	*11*	7	*2·54*	—	*2·9*	—	*5*	—	*Baltasound.*
	a Lerwick	52	30th	30	29th	49·3	38·3	43·8	− 0·7	28	10	7	3·74	—	5·3	− 9·1	9	−15	Deerness.
	a Stornoway	53	29th	30	29th	49·9	37·0	43·5	− 1·0	32	14	7	3·28	+ 1·95	9·2	− 5·6	15	− 9	Stornoway.
	a *Castlebay, Barra Isd.*	*55*	*29th*	*38*	*29th*	*51·7*	*41·6*	*46·7*	+ *0·3*	*35*	*1*	7	*1·39*	—	*5·5*	—	*9*	—	*Castlebay.*
— b, Mainland.	a Wick	55	1st	26	29th	49·9	36·4	43·2	− 1·2	32	16	7	1·06	+ 0·36	*	*	*	*	*
	p Strathpeffer.. ..	53	30th	22	29th	47·0	35·6	41·3	− 2·2	14	26	7	1·80	+ 1·15	8·5	− 7·8	14	−12	Strathpeffer.
	p Glencarron .. S	52	3rd	25	29th	48·4	37·1	42·8	− 0·2	26	14	7	4·56	+ 2·45	*	*	*	*	*
	p Fort Augustus S	55	30th	22	29th	49·2	35·3	42·3	− 1·7	30	19	7	4·13	+ 3·15	2·9	− 7·4	5	−12	Fort Augustus.
	p Fort William S	55	30th	25	29th	49·9	37·6	43·8	− 1·0	31	12	7	6·49	+ 4·69	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	56	30th	26	29th	50·0	36·9	43·5	− 0·8	32	14	4	0·90	+ 0·16	*19·8*	—	*31*	—	*Gordon Castle.*
	a Nairn	54	29th	20	29th	49·1	32·6	40·9	− 3·0	20	38	7	1·08	+ 0·57	13·0	—	21	—	Nairn.
	a Aberdeen	54	29th, 30th	25	29th	51·7	35·7	43·7	− 0·9	38	18	5	0·92	+ 0·25	21·6	+ 3·6	34	+ 6	Aberdeen.
	a Balmoral .. S	53	29th	15	29th	48·1	31·3	39·7	− 1·2	17	42	6	2·00	+ 1·10	21·1	—	34	—	Crathes S.
	p Crieff .. .. S	55	30th	24	29th	49·3	35·2	42·3	− 1·9	31	19	7	4·05	+ 3·09	16·8	—	26	—	Balruddery.
	a Leith	59	29th	26	29th	53·6	36·7	45·2	− 0·7	45	15	7	1·44	+ 0·98	*	*	*	*	*
	p West Linton.. S	55	30th	18	29th	48·6	33·1	40·9	− 1·8	18	36	7	3·23	—	*9·3*	—	*15*	—	*West Linton.*
	p Marchmont .. S	54	30th	27	29th	48·9	35·9	42·4	− 0·9	28	17	7	1·61	+ 0·83	15·2	− 0·5	24	− 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	58	29th	25	29th	53·9	37·7	45·8	+ 1·2	45	12	6	0·78	− 0·03	25·6	—	39	—	Cockle Park.
	a Shields	61	30th	28	30th	54·0	37·3	45·7	0·0	46	13	7	0·66	+ 0·04	*18·1*	+ *6·3*	*28*	+*10*	*Newcastle.*
	p Durham	57	30th	27	29th	50·7	39·4	45·1	+ 0·5	33	7	4	0·43	− 0·23	18·9	+ 2·3	29	+ 4	Durham.
	p Rounton .. R	57	30th	27	29th	51·2	38·6	44·9	+ 0·9	35	10	7	0·65	− 0·06	*	*	*	*	*
	p Scarborough.. M	58	30th	35	29th	51·6	41·9	46·8	+ 0·4	34	0	5	0·81	+ 0·12	18·7	—	29	—	Scarborough.
	p York	59	30th	29	29th	52·1	41·1	46·6	+ 0·9	36	3	5	0·72	+ 0·17	13·0	− 1·6	20	− 2	York.
— b, South.	a Spurn Head	57	30th	35	1st	53·3	40·3	46·8	− 0·4	41	5	5	0·47	− 0·02	*	*	*	*	*
	a Lincoln	58	30th	29	29th	54·8	39·0	46·9	+ 1·3	47	8	6	0·42	− 0·08	25·7	—	40	—	Skegness.
	a Fulbeck	57	30th	29	29th	54·0	38·5	46·3	+ 1·1	45	10	6	0·41	− 0·09	18·7	—	28	—	Rauceby.
															29·3	—	*44*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	58	30th	38	29th	53·3	40·7	47·0	+ 1·0	40	4	6	0·66	—	24·9	—	38	—	Cromer.
	p Hillington .. R	57	30th	27	29th	52·2	37·9	45·1	− 0·4	39	11	7	1·29	+ 0·65	19·5	+ 2·3	30	+ 3	Hillington.
	a Yarmouth	59	4th	36	29th, 30th	55·0	39·3	47·1	+ 0·2	47	8	3	0·48	− 0·15	27·5	—	42	—	Yarmouth.
	a Norwich	58	30th, 4th	31	29th	54·7	39·3	47·0	+ 1·8	46	8	6	0·95	—	*	*	*	*	*
	p Geldeston	59	30th	32	29th	54·6	40·6	47·6	+ 0·8	45	4	6	0·68	+ 0·08	27·8	+ 8·6	42	+13	Geldeston.
	p Cambridge	58	30th	26	29th	54·3	39·2	46·8	+ 0·8	45	8	6	0·57	+ 0·07	26·6	+ 7·6	40	+11	Cambridge.
— b, South.	a *Felixstowe*	*57*	*30th*	*32*	*29th*	*54·6*	*41·0*	*47·8*	+ *0·1*	*45*	*3*	*6*	*0·69*	—	*31·1*	—	*46*	—	*Felixstowe.*
	a Clacton-on-Sea ..	57	30th, 4th	33	29th, 30th	54·4	38·7	46·6	− 1·1	46	0	6	0·59	—	29·1	—	44	—	Clacton.
	a Rothamsted	58	4th	27	29th	54·9	36·5	45·7	+ 0·9	49	15	5	0·81	+ 0·14	25·9	+ 6·7	39	+10	Rothamsted.
	a *Shoeburyness* ..	*59*	*4th*	*32*	*29th*	*55·9*	*42·0*	*49·0*	+ *1·0*	*49*	*0*	*5*	*0·44*	− *0·01*	*26·2*	—	*39*	—	*Southend.*
	p Tottenham	59	30th	31	29th	54·7	42·6	48·8	+ 2·2	48	0	4	0·93	—	17·8	—	27	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	56	30th	30	29th	50·4	40·1	45·3	+ 0·8	31	5	7	1·51	+ 0·83	18·3	—	28	—	Harrogate.
	a Bawtry	59	29th	26	29th	54·6	39·1	46·9	+ 1·9	46	8	5	0·50	+ 0·06	17·6	+ 2·4	27	+ 4	Worksop.
	p *Buxton* .. M	*54*	*30th*	*32*	*29th*	*48·9*	*38·0*	*43·5*	+ *0·7*	*27*	*11*	*7*	*2·26*	+ *1·03*	*8·8*	—	*13*	—	*Buxton.*
	a Nottingham	58	29th, 30th	28	29th, 30th	54·9	36·4	45·7	+ 0·1	49	16	7	0·50	0·00	14·7	—	22	—	Nottingham.
	p Birmingham, Edgbsn	55	30th	31	29th	50·9	39·6	45·3	− 0·2	33	7	7	0·49	− 0·08	12·9	—	20	—	Birmingham.
	a Raunds .. R	57	30th, 4th	25	29th	55·2	36·0	45·6	+ 0·3	50	17	7	0·71	—	*	*	*	*	*
	a Oxford	58	4th	29	29th	55·1	37·1	46·1	− 0·2	49	14	6	0·64	+ 0·06	20·0	+ 1·8	30	+ 3	Oxford.
— b, West.	a Cheadle .. R	55	29th, 30th	30	1st	51·5	35·5	43·5	− 1·0	38	18	7	1·16	+ 0·48	17·4	—	26	—	Sheffield.
	p Shrewsbury	59	30th, 3rd	25	29th	54·1	40·0	47·1	+ 1·0	44	6	7	0·76	—	*	*	*	*	*
	a Hereford .. R	59	31st	25	29th	55·8	36·8	46·3	+ 0·3	52	15	7	0·81	+ 0·24	*	*	*	*	*
	a Cirencester	56	4th	25	29th	53·2	35·4	44·3	− 0·2	44	18	7	1·19	+ 0·51	17·4	− 0·9	26	− 1	Cirencester.
	a Bath	58	30th	26	29th	55·9	33·0	44·5	− 2·7	55	25	7	1·37	+ 0·69	16·7	—	25	—	Bath.
															27·1	—	*41*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	58	30th	31	29th	53·9	41·1	47·5	+ 1·0	42	3	5	0·84	+ 0·27	23·0	+ 6·7	34	+10	Kew.
	a Marlborough ..	57	4th	22	29th	53·4	34·3	43·9	− 0·9	46	22	6	1·19	+ 0·41	13·3	− 4·2	20	− 6	Marlborough.
	a Margate	59	4th	33	29th	55·8	42·2	49·0	+ 0·8	49	0	5	0·65	+ 0·03	24·8	+ 5·3	37	+ 8	Margate.
	a Wisley, Surrey ..	59	4th	28	29th	55·9	38·9	47·4	+ 0·2	51	9	6	0·85	—	24·7	—	37	—	Wisley.
	a Swarraton .. R	57	4th	25	29th	54·6	33·9	44·3	− 1·2	50	23	7	1·35	+ 0·58	27·2	—	41	—	Worthing.
	a Tunbridge Wells R	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Tunbridge Wells.
	a Dungeness	59	4th	32	29th	57·0	38·6	47·8	− 1·3	55	10	6	1·35	+ 0·70	30·7	—	46	—	Littlestone.
	p Hastings	57	30, 3, 4th	31	29th	55·4	42·1	48·8	0·0	48	0	6	1·23	+ 0·45	*30·8*	+ *9·0*	*46*	+*14*	*Hastings.*
	p Southampton ..	58	30th	30	29th	55·4	40·5	48·0	− 0·4	48	4	7	1·38	+ 0·58	21·1	+ 1·2	32	+ 2	Southampton.
	a Ventnor	59	30th, 4th	35	29th	57·2	44·5	50·9	+ 1·1	62	0	6	1·27	+ 0·70	23·5	+ 1·5	35	+ 2	Ventuor.
															30·2	+ 9·1	45	+14	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*60*	*4th*	*31*	*29th*	*57·1*	*39·4*	*48·3*	+ *1·7*	*55*	*7*	*5*	*0·75*	+ *0·19*	*18·6*	+ *7·4*	*28*	+*11*	*Westminster.*
	a *Greenwich*	*59*	*30th, 4th*	*28*	*29th*	*56·6*	*38·3*	*47·5*	+ *0·9*	*54*	*10*	*5*	*0·79*	+ *0·23*	*27·5*	+*12·1*	*41*	+*18*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	54	29th	27	29th	49·1	38·7	43·9	− 1·7	27	9	7	5·33	+ 4·13	*	*	*	*	*
	p Glasgow	56	30th	29	29th	51·5	39·3	45·4	+ 0·6	35	8	7	3·73	+ 2·93	7·9	− 3·5	12	− 6	Glasgow.
	p Rothesay .. S	57	30th	29	29th	52·9	40·1	46·5	+ 1·0	39	5	7	4·41	+ 3·42	*	*	*	*	*
	a Kilmarnock	57	29th	24	29th	51·4	38·7	45·1	+ 0·3	36	9	7	3·27	—	*7·6*	—	*12*	—	*Kilmarnock.*
	a Colmonell .. S	56	29th	25	29th	51·5	40·1	45·8	+ 0·8	35	5	7	4·11	+ 2·98	*	*	*	*	*
	p Dumfries .. S	57	30th	24	29th	51·1	38·7	44·9	− 0·6	34	9	7	3·20	+ 2·34	*8·0*	—	*12*	—	*Dumfries.*
	p Cally, Gatehouse S	52	3rd	25	29th	50·4	37·6	44·0	− 0·8	32	12	7	4·22	+ 3·03	*	*	*	*	*
— b, ISLE OF MAN ..	p Douglas	55	29th, 30th	32	29th	52·4	42·8	47·6	+ 0·6	39	0	6	2·87	+ 1·80	12·9	− 5·7	20	− 9	Douglas.
															15·2	—	23	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	56	30th	30	29th	51·7	41·4	46·6	+ 1·6	35	2	7	4·37	+ 3·43	8·0	—	12	—	Aspatria.
	p Newton Rigg ..	57	30th	23	29th	51·6	37·7	44·7	+ 1·1	37	12	7	3·51	+ 2·65	10·7	− 4·8	17	− 7	Newton Rigg.
	p Stonyhurst	56	30th	29	29th	50·2	41·7	46·0	+ 1·3	29	0	7	3·59	+ 2·55	9·4	− 5·9	14	− 9	Stonyhurst.
	p Blackpool .. M	58	30th	29	29th	52·1	42·4	47·3	+ 0·7	37	0	5	2·02	+ 1·17	9·9	− 6·4	15	−10	Blackpool.
	p M'nch'ster,Prestwich	56	30th	28	29th	51·6	40·9	46·3	+ 0·8	35	3	7	2·22	+ 1·38	*4·7*	− *6·6*	*7*	−*10*	*Prestwich.*
	a Liverpool (Bidston)	58	30th, 4th	34	29th, 30th	54·9	40·1	47·5	+ 0·6	46	5	7	1·04	+ 0·34	*13·4*	—	*20*	—	*Liverpool.*
	a Hawarden Bridge ..	59	30th, 4th	29	29th	56·9	40·3	48·6	+ 1·0	53	5	6	0·49	− 0·13	*12·1*	− *3·1*	*18*	− *5*	*Southport.*
															11·9	—	*18*	—	*Rhyl.*
— b, NORTH WALES ..	p Llandudno .. M	59	4th	35	29th	55·2	44·3	49·8	+ 1·3	55	0	6	1·17	+ 0·37	11·9	− 4·1	18	− 6	Llandudno.
	a Holyhead	57	29th, 30th	42	29th	53·9	45·0	49·5	+ 0·8	53	0	7	2·06	+ 1·14	6·4	—	10	—	Aberdovey.
	p Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws-y-Coed.
															7·2	—	11	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	56	4th	20	29th	53·2	34·1	43·7	− 1·0	45	22	7	2·99	—	9·3	—	14	—	Llangammarch Wells.
	a Pembroke	57	29, 30, 4th	39	29th	55·4	46·1	50·8	+ 1·1	62	0	7	1·76	+ 0·86	14·3	− 4·8	21	− 7	Pembroke.
	p Cardiff	57	30th	30	29th	54·3	40·2	47·3	+ 1·0	45	5	7	2·11	+ 0·08	*14·2*	—	*21*	—	*Cardiff.*
															13·5	− *6·2*	*20*	− *9*	*Tenby.*
— b, ENGLAND, S.W. ..	a Clifton	58	4th	31	29th	55·2	41·3	48·3	+ 1·3	47	2	7	1·60	+ 0·80	*15·5*	—	*23*	—	*Clifton.*
	a Shaftesbury .. R	55	4th	31	29th	53·4	39·1	46·3	0·0	42	8	7	0·99	+ 0·18	*	*	*	*	*
	a Arlington	56	4th	30	29th	54·1	40·3	47·2	+ 0·5	44	5	7	3·02	+ 1·60	14·5	− 6·9	22	−10	Newquay.
	a Cullompton .. R	59	1st, 4th	26	29th	56·8	35·3	46·1	− 0·9	57	19	7	1·01	+ 0·16	12·3	− 5·1	18	− 8	Cullompton.
	a Portland Bill ..	58	29, 30, 4th	39	29th, 30th	56·7	46·1	51·4	+ 1·3	66	0	6	0·54	—	*23·9*	—	*36*	—	*Weymouth.*
	p Plymouth	57	30, 1, 2nd	32	29th	54·6	43·2	48·9	− 0·5	48	0	7	1·16	+ 0·29	14·4	− 6·0	21	− 9	Plymouth.
	p Falmouth	56	2nd	40	29th	54·9	44·6	49·8	− 0·2	55	0	7	1·25	+ 0·14	18·1	− 4·9	27	− 7	Falmouth.
															16·6	—	*25*	—	*Salcombe.*
															19·5	− *0·5*	*29*	− *1*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	52	29th	36	29th	50·0	41·1	45·6	− 1·6	30	3	7	1·54	+ 0·80	*	*	*	*	*
	a Blacksod Point ..	58	29th	40	29th	52·9	44·0	48·5	+ 0·1	46	0	6	2·51	+ 1·31	*	*	*	*	*
	p Markree Castle ..	58	30th	33	29th	54·0	37·6	45·8	+ 0·3	45	12	7	2·63	+ 1·67	12·5	− 4·0	19	− 6	Markree Castle.
	a Birr Castle	58	29th	30	29th	53·7	39·7	46·7	+ 1·2	43	6	7	2·36	+ 1·65	*14·2*	− *4·4*	*22*	− *7*	*Birr Castle.*
— b, East.	p Armagh	56	30th	33	29th	52·0	38·8	45·4	− 0·2	37	9	6	1·65	+ 1·01	13·7	− 3·6	21	− 6	Armagh.
	a Donaghadee	57	29th	36	29th	52·6	39·7	46·2	− 0·8	39	6	5	1·84	+ 1·17	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	59	29th, 30th	33	29th	54·6	41·6	48·1	+ 0·4	44	1	5	0·99	+ 0·38	13·0	− 7·8	20	−12	Phœnix Park.
	a Kilkenny	58	29th, 4th	28	29th	54·0	39·4	46·7	+ 0·6	44	7	7	1·44	+ 0·74	*	*	*	*	*
	a Waterford	59	29th	31	29th	55·3	39·7	47·5	+ 0·2	48	6	7	1·29	+ 0·41	*	*	*	*	*
	a Birr Castle	58	29th	30	29th	53·7	39·7	46·7	+ 1·2	43	6	7	2·36	+ 1·65	14·2	− 4·4	22	− 7	Birr Castle.
— b, West.	a Foynes	58	29th, 4th	37	29th	54·2	43·2	48·7	+ 1·2	47	0	7	0·70	− 0·18	*	*	*	*	*
	a Cahir .. .. R	57	29th	30	29th	52·6	38·5	45·6	− 1·7	40	10	7	2·49	—	*	*	*	*	*
	a Killarney	59	29th	37	29th, 30th	54·9	42·6	48·8	+ 0·8	48	0	7	3·12	+ 1·82	*	*	*	*	*
	a Valencia	58	29th, 4th	38	29th	54·7	46·0	50·4	+ 0·9	59	0	7	2·81	+ 1·54	13·2	− 6·2	20	− 9	Valencia.
	a Roche's Point ..	57	29, 30, 4th	38	29th	55·0	44·3	49·7	+ 0·3	54	0	7	1·05	+ 0·10	16·8	—	25	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	57	4th	43	29th	55·7	47·6	51·7	− 0·3	68	0	7	0·98	+ 0·18	13·4	− 8·8	20	−13	Scilly.
	a Jersey, St. Aubins ..	60	30th	40	29th, 30th	57·6	45·3	51·5	− 0·2	67	0	6	0·79	− 0·18	26·9	+ 3·4	40	+ 5	St. Heliers.
	a Guernsey	59	1st, 4th	37	29th	57·5	46·3	51·9	+ 0·4	69	0	6	0·93	− 0·11	27·3	+ 7·3	40	+11	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	42·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	47·8
	Crathes	2	14	43·0	48·1
	Balmoral	3	13	—	—
	West Linton	—	—	—	—
	Marchmont	1	22	42·0	—
2.	Cockle Park	1	23	42·2	47·1
	Durham	1	21	—	—
	York	—	—	47·7	52·0
	Hull	1	22	45·0	51·6
	Lincoln	—	—	44·9	51·6
	Rauceby	1	25	46·5	53·0
3.	Norwich	2	24	—	—
	Yarmouth	—	—	45·4	53·0
	Lowestoft	0	31	46·2	53·1
	Cambridge	1	24	46·2	52·9
	Clacton-on-Sea	—	—	49·0	53·7
	Southend	2	26	49·4	—
	Tottenham	1	26	—	54·9
4.	Harrogate	1	23	45·8	48·9
	Huddersfield	1	20	44·7	50·8
	Buxton	3	19	44·8	51·0
	Sheffield	1	22	45·8	50·9
	Nottingham	1	23	44·7	51·0
	Birmingham	1	15	45·8	51·1
	Oxford	1	24	—	—
	Hereford	2	21	—	—
	Cirencester	2	25	47·0	52·1
	Bath	—	—	48·2	53·7
5.	Margate	0	32	48·8	53·1
	Greenwich	2	22	—	—
	Westminster	3	25	—	—
	Kew	4	22	45·9	52·9
	Canterbury	1	30	47·9	51·3
	Tunbridge Wells	—	—	—	—
	Wisley	4	19	46·8	52·8
	Worthing	2	27	49·1	54·9
	Portsmouth	1	27	48·6	54·6
6.	Glasgow	1	21	—	—
	Rothesay	—	—	—	48·6
	Colmonell	1	24	—	—
6.	Dumfries	1	20	44·9	49·9
	Douglas	1	26	—	—
7.	Aspatria	1	21	45·3	49·8
	Newton Rigg	2	16	46·0	49·4
	Burnley	1	18	45·0	50·1
	Southport	1	23	45·0	49·9
	Manchester City	1	30	46·1	52·7
	Bettws-y-Coed	—	—	—	—
8.	Llangammarch Wells	7	8	47·2	52·2
	Cardiff	2	24	46·9	53·1
	Clifton	1	29	—	—
	Plymouth	2	29	49·9	—
9.	Armagh	1	26	46·7	51·2
	Markree	2	29	48·4	52·7
10.	Dublin, Trin. Coll.	2	20	48·2	52·1
11.	Guernsey, Brooklyn	1	28	52·0	56·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	? 50	? 42	? 49·5
	Kirkwall	43	42	43·0
	Wick	50 ?	50 ?	50·0 ?
SCOTLAND E.	Cromarty	48	44	45·7
	Pennan Bay	50	47	48·5
	Aberdeen, Cove Bay	50	48	49·2
ENGLAND, N.E.	Burnmouth, Berwick	47	47	47·0
	Scarborough	51	43	47·3
ENGLAND, E.	Shipwash Lightship	54	51	52·4
	Margate‡	54	50	51·9
ENGLAND, S.E.	Eastbourne‡	54	52	53·4
SCOTLAND, W.	Lamlash	50	48	49·2
	Ballantrae	50	45	47·1
ENGLAND, N.W.	Port Erin	54	52	53·0
ENGLAND, S.W.	Newquay	57	55	55·8
	Scilly	53	52	52·5
	Plymouth‡	53	52	52·9
	Salcombe	58	53	54·8
IRELAND, N.W.	Sheephaven	51	50	50·6
	Teelin	53	48	50·0
IRELAND, S.W.	Cleggan	50	46	48·2
	Seafield	53	50	51·3
IRELAND, E.	.. .. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

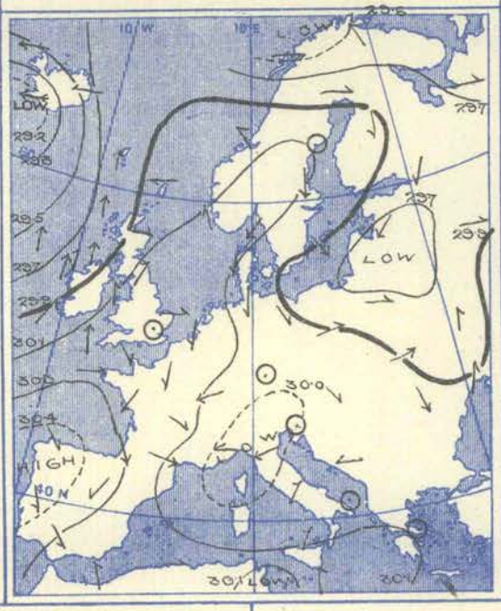
Sunday, 29th October, 1911.

Temperature and Weather.

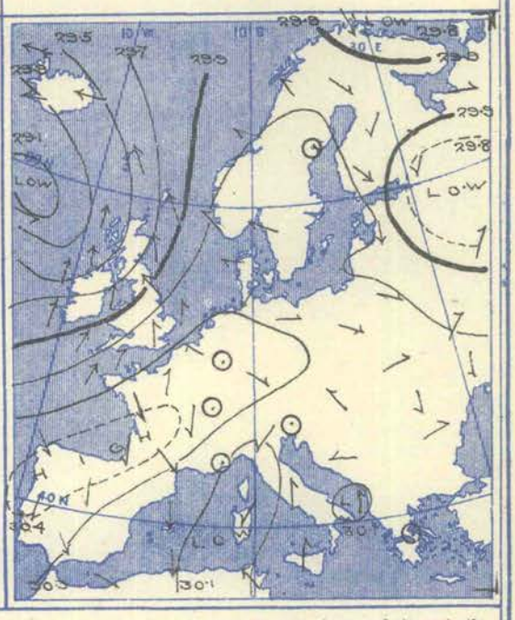
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine and bright over the greater part of southern Europe, France, England, and Scotland, but rainy in Ireland, the Hebrides, and on the extreme south-west coast of England. Very cloudy or overcast in Russia, rain falling at Riga and snow at Memel. Rain experienced later in these Islands, more than 1·0 in. in some parts of Ireland. Various quantities falling in some Continental regions and also in Algeria; 1·1 in. of rain or snow at St. Petersburg, and 1·3 in. at Algiers and Sétif.

Temperature fallen in most regions. Morning readings ranging from 69° at Malta and above 60° at many other southern stations to 55° in the south-west of Ireland, about 45° in Austria and Poland, and to below 32° over a large area in Great Britain and northern Europe. Rising quickly during evening and night in England and Scotland; reaching or exceeding 55° in many localities. Maxima above 70° on some shores of the Mediterranean, but only 61° at Nice and 59° at Marseilles.

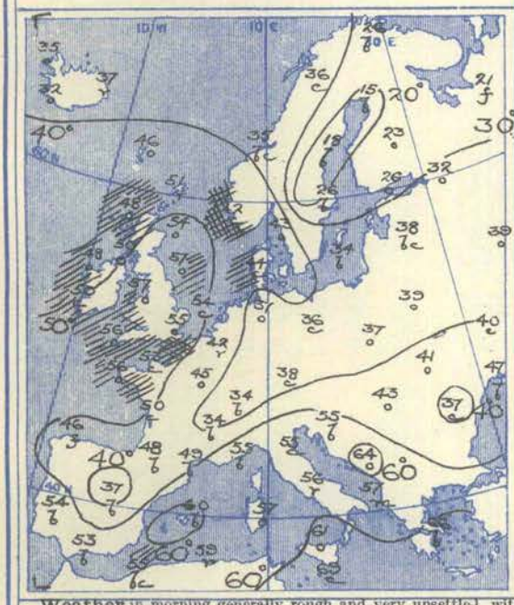
Wind in morning mainly Southerly in all our western districts, fresh in places and strong in the Hebrides. Strong to a gale from the Eastward in Iceland. Fresh to high Northerly winds prevailing on the Baltic. Southerly current extending to the whole of the United Kingdom by evening and increasing to a gale in several places. A gale during night on many parts of our coast, and also in the south-west of Norway. Northerly wind decreasing somewhat in force on the Baltic.

Barometer in morning above 30·4 in. between the Azores and Spain, and relatively high thence to Scandinavia and Finland. Below 29·2 in. in the south-west of Iceland, and low in depressions over East Prussia and the adjacent portion of Russia, in the extreme north of Norway, and also in a system over northern Italy and the islands of Corsica and Sardinia. Pressure continuing to increase decidedly during day in France and central Europe, but decreasing quickly in the west and north of the United Kingdom and gradient becoming steep over a large area. Prussian disturbance moving towards central Russia.

Monday, 30th October, 1911.

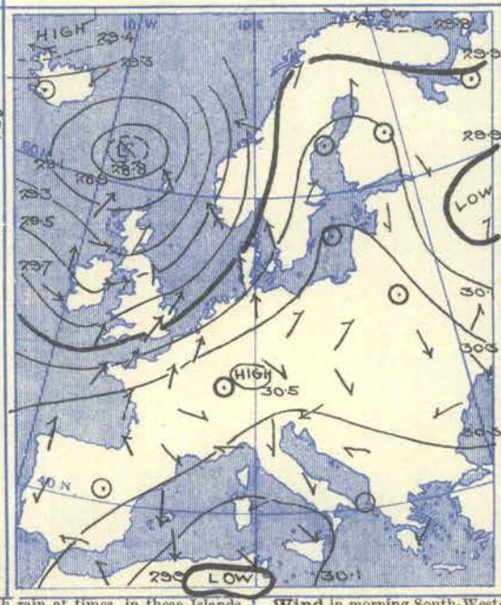
Temperature and Weather.

7 a.m.

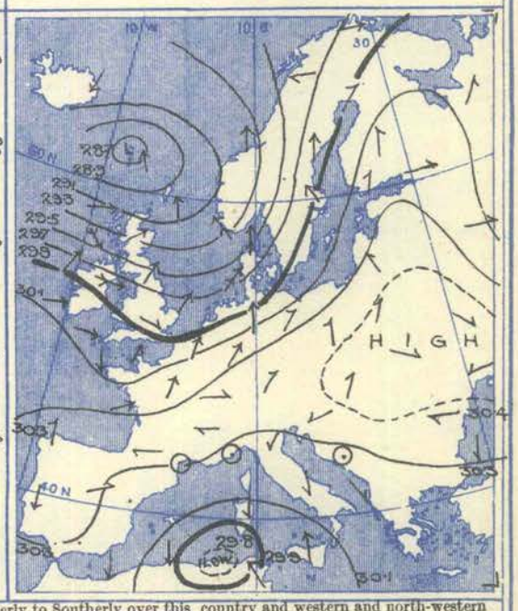


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally rough and very unsettled, with rain at times, in these Islands and their neighbourhood. Mostly fair to fine in other regions, but overcast in some districts and rainy in Algeria and also at Sfax and Rome. Rain later in the United Kingdom and over the northern and western countries of the Continent, as well as in Russia and Algeria. Thunderstorms occurring in the latter country, with more than 5·2 in. of rain at Algiers and 2·6 in. at Sétif.

Temperature risen very decidedly in these Islands and their immediate vicinity. Morning readings ranging from about 15° in the north of Sweden and 30° at Cassel to about 55° in the south and south-west of England, the south of France and north of Italy to 66° at Athens, and 69° at Malta. Readings below 50° at San Fernando and below 60° in Algeria. Rising to 61° at North Shields during day and to above 55° at many other of our stations, and also in the north of France. Remaining below 50° in Germany and some parts of Austria. Maxima nearly 80° in Greece, 77° at Brindisi, and 73° at Malta.

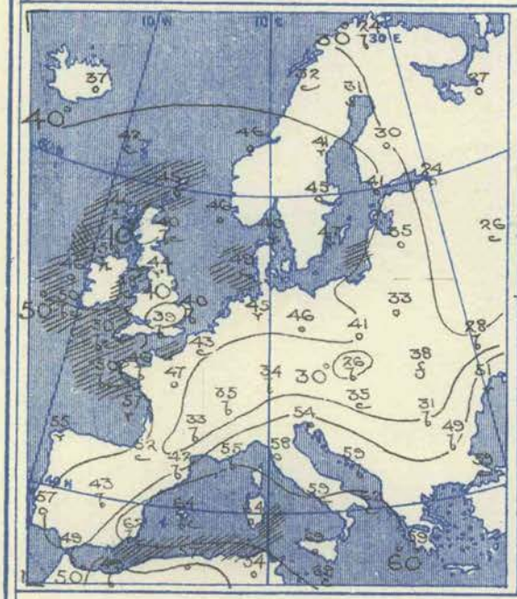
Wind in morning South-Westerly to Southerly over this country and western and north-western Europe. Fresh to strong generally; a gale on some of our western coasts and on the south-west coast of Norway; an Easterly gale in the north-west of Iceland. Strong to high winds from between North and East prevailing in Algeria and on the adjacent part of the Mediterranean. Gale becoming more general later in day in these Islands and extending greatly in an Easterly direction. Veering to West or North-West along our western coasts and blowing a severe gale.

Barometer in morning below 28·8 in. in the centre of a large and deep depression near the Faeröe; below 29·9 in. in a shallower system over Russia and also in a depression over the north of Africa. Above 30·4 in. in an anticyclonic band extending from some distance beyond Portugal across France and Germany to Poland. Main disturbance remaining unchanged during day, but a secondary of a "V-shaped" character passing Eastward over these Islands and gradient increasing generally. African depression increasing in intensity, and gradient becoming steep in its immediate neighbourhood.

Tuesday, 31st October, 1911.

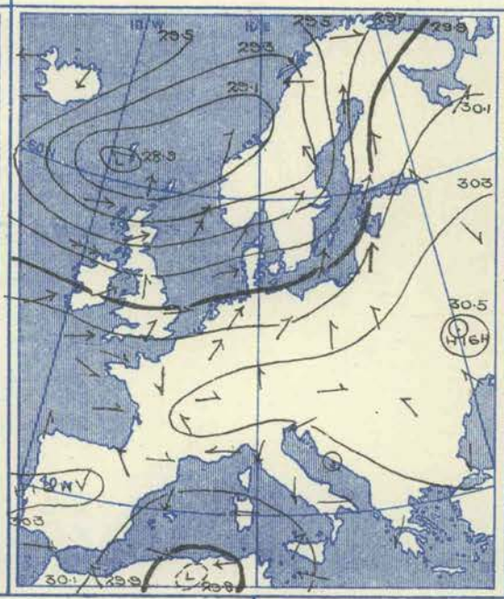
Temperature and Weather.

7 a.m.

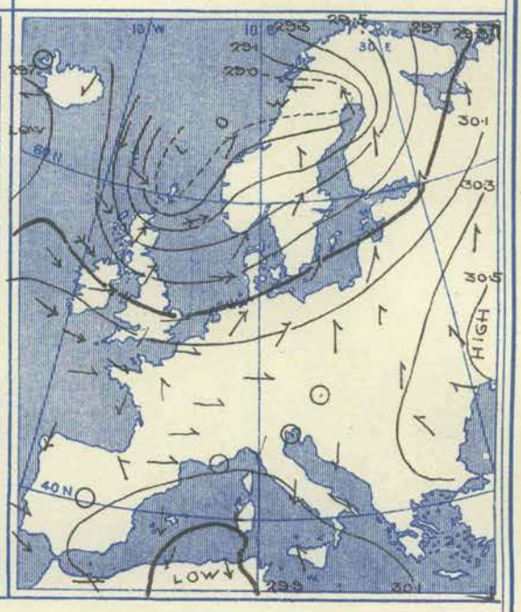


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable over the northern and north-western countries. Fair to bright in many localities, rainy or showery in others. Mostly very cloudy or overcast on the Mediterranean, with rain at some stations in Algeria. Rain experienced later in most parts of these Islands and in various districts in many countries of the Continent, and also at Algiers. Amount slight to moderate generally, but as much as 1·2 in. at Cagliari.

Temperature fallen in these Islands, risen quickly in Scandinavia. Readings in morning above 60° at a few stations in the far south, but below 50° over our area as a whole, and below 40° in many regions in the centre and north. Frost prevailing in Russia and the north of Scandinavia. Maxima during day between 50° and 55° at most of our own stations and over a wide area in central Europe, above 60° in most southern regions, and above 70° in places; 75° at Malaga and 77° at Patras.

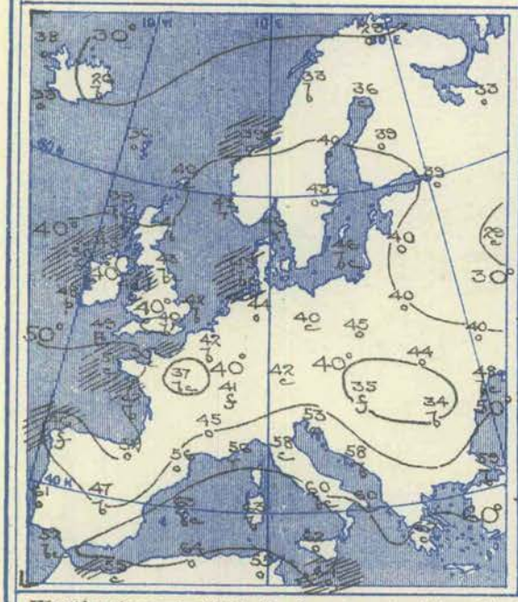
Wind in morning mainly Westerly over the United Kingdom and the North Sea, and South-Westerly to Southerly in Scandinavia and its neighbourhood; blowing a whole gale at Malin Head, a gale in the south of Scandinavia and a strong breeze to high wind generally. A high wind from East prevailing at Cagliari, and a gale from East-South-East at Biskra. No great change during day over our area as a whole; veering to West or North-West in all our western and northern districts and blowing very strongly. Gale continuing in Scandinavia.

Barometer in morning below 28·9 in. in a depression centred near Thorshavn, and below 29·8 in. in another over Algeria. Above 30·4 in. in an anticyclone in eastern Europe, and above 30·2 in. over the Bay of Biscay region. Depression travelling East-South-Eastward during day and pressure recovering very briskly in its rear. Gradient becoming steeper over Scotland and its neighbourhood. Little modification occurring within the high-pressure system.

Wednesday, 1st November, 1911.

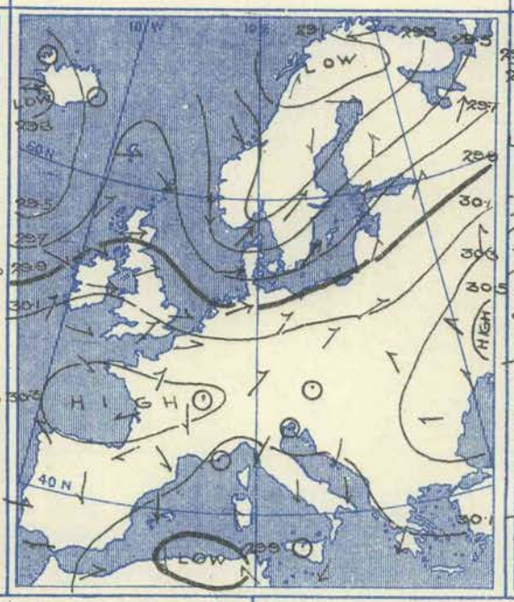
Temperature and Weather.

7 a.m.

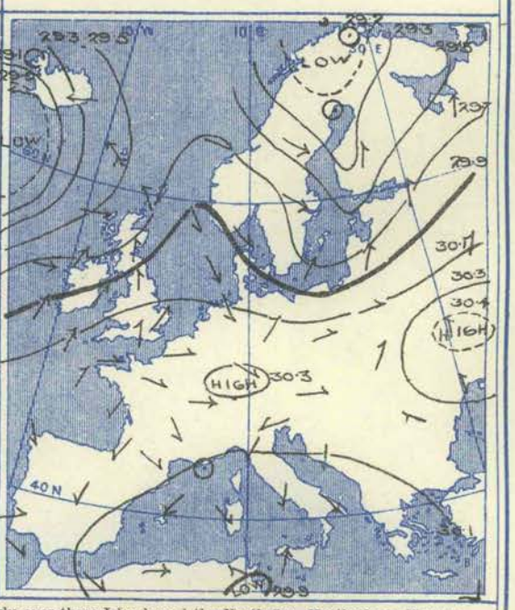


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine in most parts of these Islands, and also over the southern countries, but rain falling in Cornwall, the extreme south-west of Ireland, and also at Nice. Cloudy or overcast as a whole over the northern half of the Continent, with rain at some Scandinavian stations. Light to moderate quantities of rain falling later in these Islands and over a considerable area on the Continent; as much as 0·9 in. at Malta, and 1·0 in. and 1·9 in. respectively at Tunis and Algiers. A thunderstorm occurring at Tunis.

Temperature showing no decided or general change. Morning readings ranging from a little above 60° at some stations in the extreme south to below 50° generally, and to below 40° over a very large area; slight frost prevalent in central Russia and the north of Scandinavia Thermometer rising to 55° or slightly higher in several parts of England during day, to about. 60° in many parts of France, and to above 70° in the far south of our area. Maxima very little above 50° in Germany and Austria and only 55° at Turin.

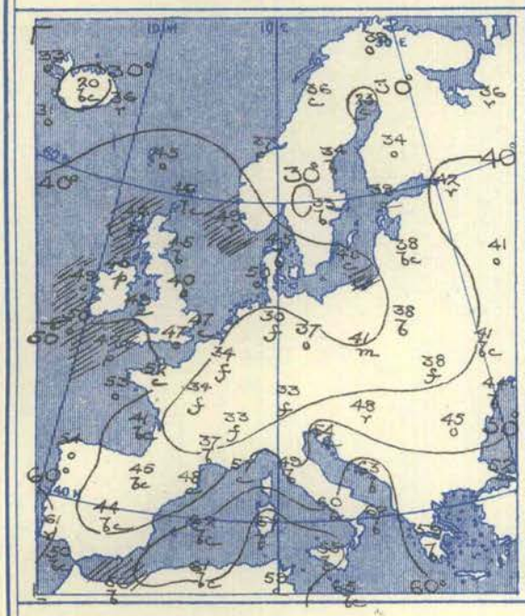
Wind in morning mainly Westerly over these Islands and the North Sea, Northerly in Norway, and South-Westerly over the Baltic and Gulf of Finland; blowing a fresh to strong breeze in many places, a high wind on the coast of Jutland, and a strong gale on the south-west coast of Norway. Light to moderate cyclonic breezes prevailing over the Mediterranean and light anticyclonic breezes in the south-west and east of our area. Backing to South or South-West by evening over the United Kingdom, and to South-East at Thorshaven. Veering to North-West in Sweden and increasing to a gale from South-West on the Baltic.

Barometer in morning above 30·5 in. in the south of Russia and above 30·3 in. over the Bay of Biscay and a considerable portion of France. Below 29·9 in. in a depression over Algeria and Tunis, below 29·1 in. in the far north of Scandinavia, and below 29·4 in. to the south-westward of Iceland. A large disturbance approaching these Islands during day from the north-westward, and gradient increasing in depth both over this country and the adjacent part of the Atlantic. Northern depression moving eastward, and that in the south apparently moving southward.

Thursday, 2nd November, 1911.

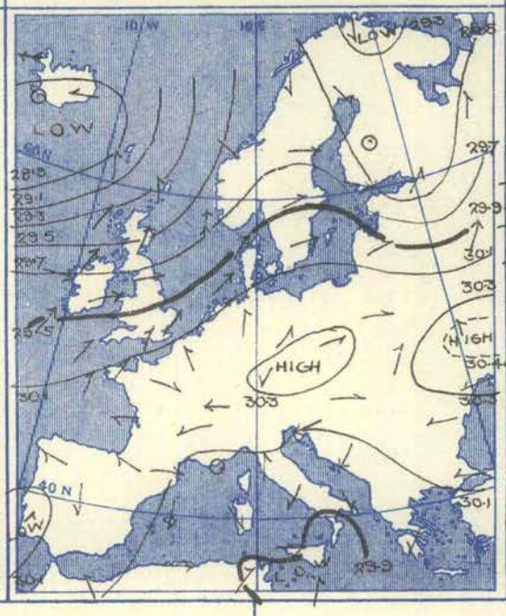
Temperature and Weather.

7 a.m.

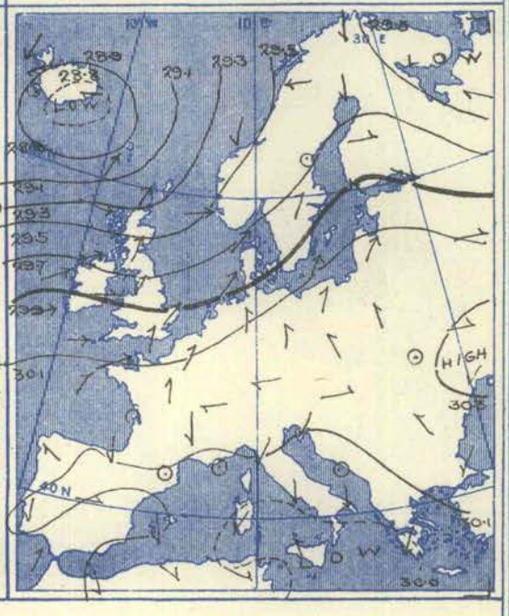


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable and unsettled over these Islands; bright in Scotland, but rainy in some parts of Ireland and England. A good deal of cloud prevailing on the Continent, with rain at a few places in the north and also at Buda-Pesth. Mostly fair in the south. Rain experienced later in the United Kingdom and the nearer countries of the Continent and also in Scandinavia, Sicily, Malta, and Algeria; 0·9 in. at Palermo and 0·7 in. at Malta. A thunderstorm occurring at Cape de Garde.

Temperature risen in these Islands, fallen in France, Germany, and Sweden. Morning readings above 45° in most parts of the United Kingdom and 55° at Portland Bill. Below 40° over the major portion of the Continent, and below 32° in the south-east of Russia and the extreme north of Sweden. Above 60° at a few places in the extreme south of our area. Maxima during day about 55° in various English localities and in France; above 70° at a few stations in Algeria and at some places in the south of Europe.

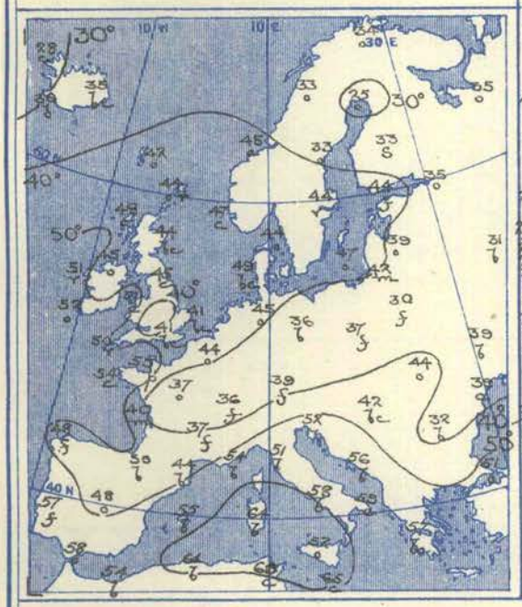
Wind in morning South-Westerly to Southerly over the north-western countries; fresh to strong in many localities, high at Castlebay, and a gale at Skudesnaes. Light winds mainly between North-East and North-West over the Mediterranean, and a strong current from the Westward over the Baltic and Gulf of Finland. Increasing to a gale on our extreme north-west and north coasts later in day or at night.

Barometer in morning above 30·2 in. over all of central Europe and the southern half of Russia; below 28·9 in. in a large depression having its minimum to the south of Iceland, and below 29·3 in. in another in the most northern part of Norway. No material alteration in the general distribution of pressure during day. Icelandic depression increasing in depth.

Friday, 3rd November, 1911.

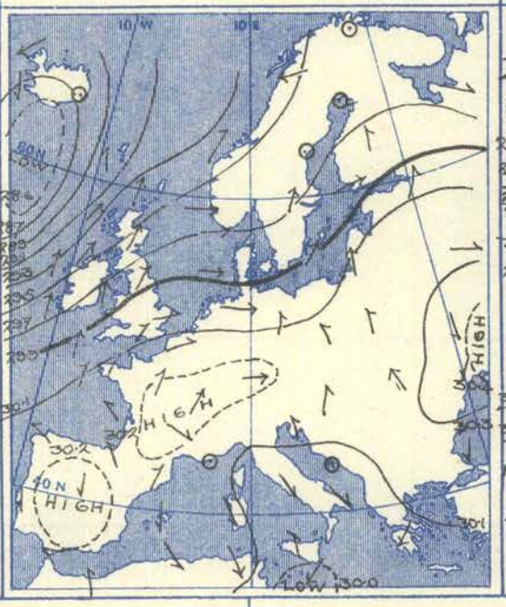
Temperature and Weather.

7 a.m.

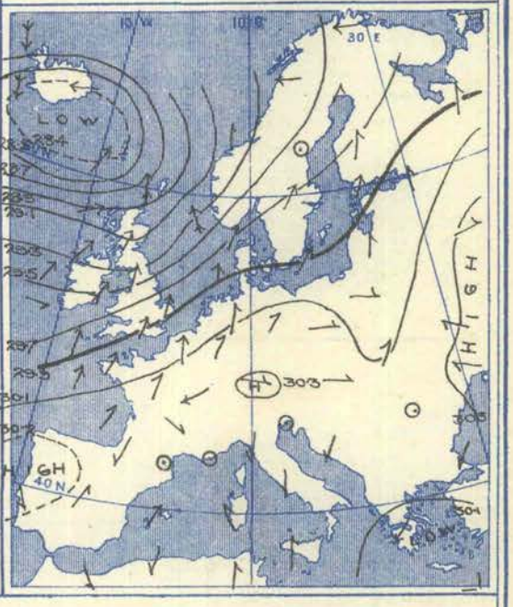


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy or showery at some of our north-western and south-western stations, and also in the south of Sweden, and rather cloudy over the North and North-West of our area generally; snow falling in Finland. Fair to bright in most southern regions, but rainy at Cape de Garde. Rain later very generally over these Islands and in a few localities on the Continent. Thunderstorms occurring at Lerwick and Castlebay. Rain not heavy except at Lerwick and Stornoway.

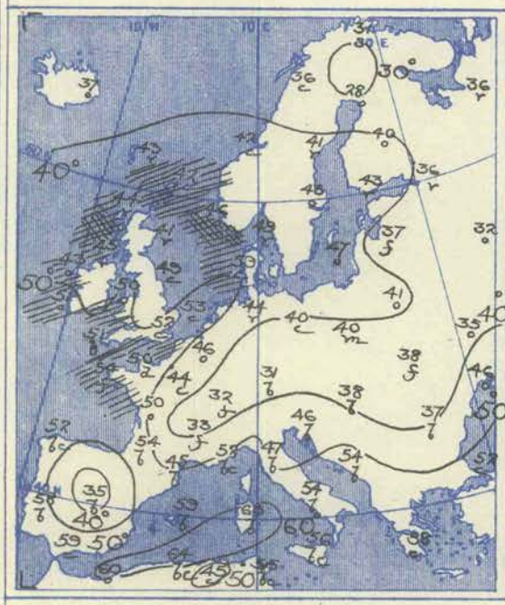
Temperature changed irregularly. Morning readings above 60° at some places in the extreme south, but below 40° in Russia, central Europe, and most of France, and below 32° in the north of Sweden. Maxima during day about 55° at many of our own stations, but lower in central Europe and the east of France. Above 70° at a few places in the south of our area, as high as 77° at Malaga.

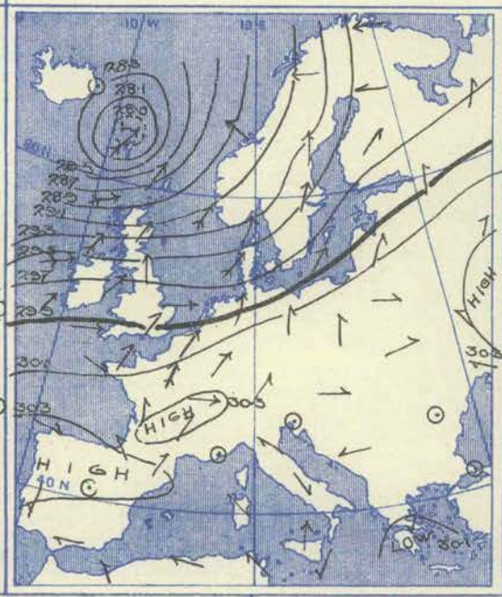
Wind in morning mainly Southerly over these Islands, fresh to high along our western coasts light or moderate in the east. Westerly to South-Westerly or Southerly breezes prevailing on the Baltic, in Denmark and the south of Scandinavia, and light anticyclonic or variable airs elsewhere. Increasing to a gale by evening on the western and northern coasts of these Islands and also on the south-west coast of Norway, and blowing a gale from the Northward in Iceland. A gale experienced on several parts of our South and East coasts.

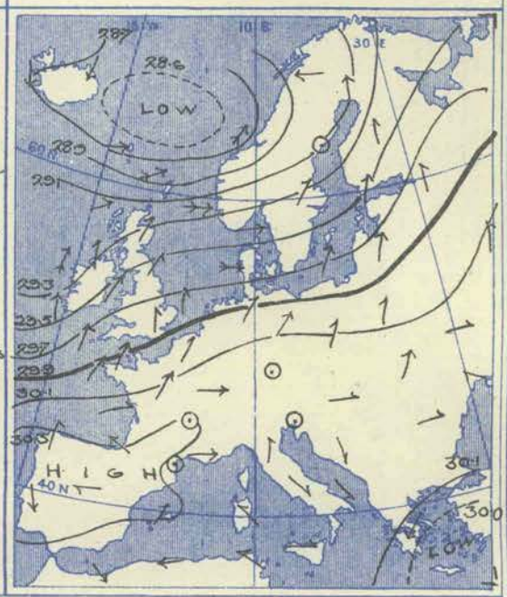
Barometer in morning above 30·4 in. in the south of Russia and relatively high thence to the Spanish Peninsula and the Azores. Below 28·6 in. in a very large depression having its minimum some distance to the South of Iceland. Latter moving in an easterly direction during day; pressure falling to 28·37 in. at Thorshavn by 6 p.m. and gradient increasing greatly over the United Kingdom and the adjacent seas and channels.

Saturday, 4th November, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rough and unsettled throughout these Islands and north-western Europe as a whole, with passing showers or rain in many localities. Mostly fair to fine in the central and southern countries. Rain experienced later very generally over the United Kingdom and the northern countries of the Continent, but quantity moderate in most localities. A thunderstorm occurring at Castlebay.

Temperature showing no decided change. Readings in morning ranging from a little below 32° at some stations in the extreme north of our area, in central Russia, and at Munich to about 50° in the south and south-west of this country, and to above 60° in the far south of our area. Maxima during day above 55° in various parts of England and Ireland and also in some Scottish localities, the Netherlands, and the north of France, but only 45° at Gap. Thermometer touching or rising above 70° at a few stations in the extreme south of our area.

Wind in morning fresh or strong to a gale from the South-Westward over the United Kingdom and the adjacent countries of the Continent, and also at Thorshavn. Light and rather variable over the southern regions of the Continent and over the Mediterranean. Increasing in force later, and a serious gale experienced over a very wide area. A strong to whole gale attained on most parts of our coasts and beyond the North Sea, and the force of a hurricane at Malin Head.

Barometer in morning as low as 27·99 in. in a depression of great size having its minimum near Thorshavn; above 30·4 in. in the south of Russia, and above 30·2 in. in an irregularly-shaped band extending thence to the Azores. Gradient very steep in the north of these Islands and between Scotland and the baric minimum. Pressure increasing decidedly for a time in Scotland, but another fall setting in in Ireland and extending quickly in a north-easterly and easterly direction. Gradient becoming very steep again during night.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	October 31st, 10.20 a.m. to 11.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	281·5° 80% 240°, 10	280·5° 80% 245°, 14	278° 85% 260°, 19	275° 95% 290°, 19				274·5° 95% 290°, 20	1,050	Steady wind. Gale in afternoon.
2	November 1st, 10.30 a.m. to 11.17 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	281° 85% 260°, 5	280·5° 85% 270°, 8	278·5° 85% 290°, 9	276° 85% 310°, 12				275° 85% 310°, 11	1,200	Cloudless. Wind falling off above 1,000 m.
3	November 3rd 10.30 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	283° 85% 170°, 5	282·5° 85% 180°, 7	279·5° 90% 200°, 14					277·5° 95% 210°, 17	700	Overcast. The large kite gave a dangerously high pull, but no smaller kite could be got up.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	1	1
Area of Surface (sq. metres) ..	4	7	8
Capacity of Balloon (cub. metres) ..	—	—	—
Length of Wire (metres)	1,250	1,500	700

South Kensington, London, S.W. *November 8th, 1911.* W. N. SHAW, *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

361

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 45. FORTY-FIFTH WEEK, SUNDAY, NOVEMBER 5TH, TO SATURDAY, NOVEMBER 11TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was very unsettled throughout. Rain was frequent and occasionally very heavy, but fair, bright intervals were not uncommon. Thunderstorms occurred on various dates over a wide area in Great Britain, and also at Waterford and Birr Castle.

Temperature was below the average in all districts, the difference amounting to 4° in Ireland S., and to about 3°·5 in Ireland N. and Scotland W. The highest of the maxima were registered either on the 5th or 7th over the Kingdom generally, and ranged from 61° in England E. and 60° in England N.W. and S.W., to 53° in Scotland E. The lowest of the minima were recorded later in the week, mostly on the 10th or 11th. In Scotland E. the thermometer fell to 21°, in Scotland W. to 22°, and in Ireland N. to 23°. Elsewhere the absolute minima ranged from 25° in England S.E., S.W., and N.W., and also in Ireland S. to 31° in England E., and to 40° in the English Channel. The lowest grass readings were 11° at Llangammarch Wells, 15° at Glasgow, 17° at Aspatria and Burnley, 18° at Newton Rigg, and 19° at Buxton and Dublin.

Mean Temperature of the Sea. At many stations on the north and east coasts of Britain the water was warmer than during the corresponding week of last year, but elsewhere it was generally colder. The means for the week ranged from 54° at Newquay, 53° at Salcombe, and 52° at Scilly and Eastbourne to about 44°·5 at Scarborough and Cromarty, and to 41° at Kirkwall.

Rainfall exceeded the normal except in England N.E. In England S.E. and the English Channel the excess was very large. Falls of more than an inch in twenty-four hours occurred in some Scottish localities on the 5th, as much as 1·31 in. at Poltalloch, and on the 11th at many stations in the south of England. The largest measurements were 1·24 in. at Worthing, 1·26 in. at Bournemouth and Brighton, 1·35 in. at Ventnor, and 1·40 in. at Eastbourne. In addition to these falls a few southern stations experienced about as large a quantity on the 7th; at Worthing there was 1·18 in., and at Eastbourne 1·11 in. At Pembroke a fall of 1·46 was recorded on the 9th.

Bright Sunshine was above the average, considerably so in some English districts. The percentage of the possible duration ranged from 40 in England N.E., 38 in England E., and 37 in the Midland Counties and the English Channel to 24 in England N.W., and to 22 in Scotland W.

Barometer and Wind. At the beginning of the week a very large and deep depression had its centre to the northward of Scotland, and the barometric gradient over these islands and their neighbourhood was unusually steep. Gales from the South-Westward were experienced very generally on Sunday, the force of a whole gale being attained on numerous parts of our western and northern coasts, and of a storm at Donaghadee and Malin Head. The depression travelled away to the north of Scandinavia by Monday, but the pressure distribution continued cyclonic, with a steep gradient, and gales or strong winds were again more or less general during the subsequent days. During Thursday a disturbance moved south-eastwards from the north of Ireland to England, and the wind became Northerly on the western coasts, and towards North-East in Scotland. At the end of the week another deep disturbance was extending over the Kingdom from the Atlantic, while a small secondary moved eastwards across England. Gales from South-West were again experienced on the south-western and southern coasts of England, and winds of increasing force from the Eastward in the northern parts of the Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient	Deficient	Deficient
	Rainfall ...	Heavy	Heavy	Moderate	Heavy	Heavy	Very heavy	Moderate	Moderate	Heavy	Moderate	Very heavy	Very heavy
	Sunshine ...	Very abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 10 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 4	2 * 3	3 * 1	3 * 1	3 * 2	3 * 2	2 * 4	2 * 3	3 * 2	2 * 3	2 * 4	4 * 2
	Rainfall ...	4 * 5	3 * 3	3 * 3	4 * 2	3 * 2	3 * 2	1 * 5	4 * 4	4 * 4	1 * 4	5 * 3	5 * 1
	Sunshine ...	4 * 2	5 * 1	5 * 2	6 * 1	4 * 1	7 * 1	2 * 3	5 * 2	4 * 3	3 * 2	2 * 3	2 * 4

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10146 / 450 Wy. & S., Ltd 11—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FIFTH WEEK—November 5th to November 11th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	54	27	45·4	35·1	40·3	− 3·2	10	− 14	27	+15	5	0	1·71	+0·45	18	+ 9	31	+15
Eastern																		
1. SCOTLAND, EAST	53	21	45·4	34·2	39·8	− 3·0	10	− 14	30	+13	5	+ 1	1·05	+0·29	19	+ 5	31	+ 9
2. ENGLAND, N.E.	58	29	48·2	37·3	42·8	− 1·8	25	− 4	13	+ 3	5	+ 1	0·55	−0·03	25	+ 12	40	+18
3. ENGLAND, EAST	61	31	50·6	38·7	44·7	− 0·4	33	0	9	− 2	5	+ 1	0·77	+0·24	24	+ 7	38	+11
4. MIDLAND COUNTIES	57	26	48·8	37·0	42·9	− 1·4	27	− 4	14	+ 1	6	+ 2	1·07	+0·44	24	+ 10	37	+16
5. ENGLAND, S.E.	59	25	51·4	40·2	45·8	− 1·1	34	− 7	5	− 2	6	+ 2	2·12	+1·35	21	+ 5	33	+ 8
Western																		
6. SCOTLAND, WEST	57	22	46·2	36·4	41·3	− 3·6	12	− 18	23	+15	5	0	1·34	+0·02	13	+ 1	22	+ 2
7. ENGLAND, N.W.	60	25	47·8	37·9	42·9	− 2·8	24	− 9	11	+ 4	5	0	0·89	+0·02	15	+ 3	24	+ 5
8. ENGLAND, S.W.	60	25	50·6	39·8	45·2	− 2·2	32	− 8	6	+ 1	7	+ 2	2·02	+0·94	22	+ 6	34	+10
9 IRELAND, NORTH	56	23	47·4	36·1	41·8	− 3·5	15	− 17	25	+17	5	0	1·19	+0·23	18	+ 3	29	+ 5
10. IRELAND, SOUTH	57	25	49·2	36·4	42·8	− 4·0	29	− 12	16	+ 9	7	+ 2	1·42	+0·39	22	+ 5	34	+ 8
11. ENGLISH CHANNEL	59	40	53·6	45·2	49·5	− 1·3	53	− 9	0	0	7	+ 2	2·23	+1·24	24	+ 5	37	+ 7

THE SEASON (Autumn).—Aggregates, &c., for the Period of 10 Weeks, September 3rd to November 11th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	68	21	*	*	*	*	426	− 51	72	+17	44	− 6	10·36	−1·32	195	+ 9	25	+ 1
Eastern																		
1. SCOTLAND, EAST	77	15	*	*	*	*	471	− 38	104	+32	36	− 5	6·25	−0·28	247	+ 27	32	+ 4
2. ENGLAND, N.E.	89	25	*	*	*	*	628	+ 27	26	− 7	38	+ 1	5·04	−0·67	290	+ 47	37	+ 6
3. ENGLAND, EAST	93	26	*	*	*	*	788	+101	16	−23	35	− 1	5·43	+0·03	330	+ 57	42	+ 7
4. MIDLAND COUNTIES	94	25	*	*	*	*	676	+ 48	38	−12	37	+ 1	5·45	−0·33	287	+ 49	37	+ 6
5. ENGLAND, S.E.	91	25	*	*	*	*	828	+ 60	13	−12	36	+ 1	8·36	+1·76	354	+ 79	45	+10
Western																		
6. SCOTLAND, WEST	70	21	*	*	*	*	533	− 36	57	+19	36	− 6	9·28	−1·57	238	+ 16	31	+ 2
7. ENGLAND, N.W.	85	23	*	*	*	*	641	− 2	18	− 6	37	− 3	9·23	+1·12	275	+ 49	35	+ 6
8. ENGLAND, S.W.	91	20	*	*	*	*	795	+ 64	9	− 9	41	0	9·11	0·00	301	+ 39	39	+ 5
9. IRELAND, NORTH	73	23	*	*	*	*	607	+ 10	35	+ 6	38	− 8	7·15	−1·16	248	+ 29	32	+ 4
10. IRELAND, SOUTH	82	25	*	*	*	*	698	+ 13	20	− 5	44	+ 3	9·38	+1·30	272	+ 18	35	+ 2
11. ENGLISH CHANNEL	89	37	*	*	*	*	1043	+106	0	0	42	− 2	10·27	+2·37	325	+ 3	41	0

THE YEAR.—Aggregates, &c., for the Period of 45 Weeks, January 1st to November 11th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	84	14	*	*	*	*	2182	+151	487	−125	188	−22	42·11	−0·98	1211	+140	30	+ 4
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2430	+151	596	− 96	161	−13	21·56	−4·54	1419	+147	35	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	2992	+441	397	−111	141	−16	17·93	−3·24	1528	+151	38	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3474	+527	425	−135	138	−14	17·08	−3·23	1742	+242	43	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3299	+435	453	−130	125	−26	15·76	−6·78	1520	+184	38	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3555	+368	374	− 32	124	−21	19·71	−3·00	1860	+341	46	+ 9
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2745	+273	404	− 59	162	−20	33·89	−5·81	1476	+172	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3067	+357	332	− 78	143	−25	26·36	−2·96	1606	+283	40	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3401	+378	306	− 13	139	−27	26·14	−5·62	1739	+260	43	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2798	+214	337	− 37	158	−40	24·94	−7·23	1441	+231	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3273	+302	315	+ 31	171	− 5	28·79	−4·47	1537	+175	38	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	3902	+379	135	+ 26	145	−32	24·60	−1·98	1934	+136	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*47*	*5th*	*32*	*11th*	*45·5*	*35·9*	*40·7*	—	*10*	*24*	*7*	*0·68*	—	*21·2*	—	*39*	—	*Baltasound.*
	a Lerwick	46	5, 6, 7, 8, 10, 11	36	8th	45·9	38·4	42·2	− 1·4	17	10	5	0·81	—	12·2	+ 0·4	21	+ 1	Deerness.
	a Stornoway	49	10th	33	9th	46·9	36·0	41·5	− 2·4	14	25	4	0·90	− 0·43	29·0	+16·4	50	+29	Stornoway.
	a *Castlebay, Barra Isd.*	*49*	*5th, 7th*	*39*	*9th*	*47·6*	*41·1*	*44·4*	*− 1·1*	*21*	*3*	*4*	*0·76*	—	*26·4*	—	*44*	—	*Castlebay.*
	a Wick	54	7th	27	10th	47·7	34·4	41·1	− 2·3	16	31	5	0·80	+ 0·15	*	*	*	*	* *
	p Strathpeffer.. ..	47	5th	28	9th	43·4	33·6	38·5	− 4·0	4	30	6	1·33	+ 0·68	18·9	+ 5·2	32	+ 9	Strathpeffer.
	p Glencarron .. S	50	5th	29	9th	44·6	35·1	39·9	− 2·3	7	26	5	2·34	+ 0·24	*	*	*	*	* *
	p Fort Augustus S	51	5th	30	9, 10, 11th	44·6	33·7	39·2	− 4·0	7	31	6	2·21	+ 1·22	12·3	+ 4·3	21	+ 7	Fort Augustus.
	p Fort William S	51	5th	27	11th	44·4	34·5	39·5	− 4·2	7	28	6	3·61	+ 1·78	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	51	5th	28	9th, 11th	45·4	34·2	39·8	− 3·6	10	30	4	0·80	+ 0·12	*20·5*	—	*35*	—	*Gordon Castle.*
	a Nairn	46	5th	26	10th, 11th	42·9	33·0	38·0	− 4·8	3	32	6	1·35	+ 0·87	20·5	—	35	—	Nairn.
	a Aberdeen	49	7th	33	9th	46·0	36·7	41·4	− 2·2	11	22	6	0·80	+ 0·12	15·9	+ 0·3	27	+ 1	Aberdeen.
	a Balmoral .. S	47	7th	25	9th	45·0	32·3	38·7	− 1·3	8	36	5	1·07	+ 0·17	12·7	—	21	—	Crathes S.
	p Crieff .. .. S	50	5th	29	10th	46·5	33·5	40·0	− 3·0	13	33	5	1·40	+ 0·40	24·9	—	42	—	Balruddery.
	a Leith	50	7th	33	10th	46·4	37·7	42·1	− 2·7	19	12	6	0·84	+ 0·39	*	*	*	*	* *
	p West Linton.. S	52	5th	21	10th	43·6	30·9	37·3	− 4·2	4	40	6	1·43	—	*213·5*	—	*23*	—	*West Linton.*
	p Marchmont .. S	53	5th	31	9th	47·4	35·0	41·2	− 1·1	15	28	5	0·71	− 0·05	19·2	+ 5·2	32	+ 9	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	52	5th	29	9th	46·9	36·7	41·8	− 2·2	14	22	5	0·55	− 0·23	24·5	—	40	—	Cockle Park.
	a Shields	52	5th	32	10th	47·9	36·7	42·3	− 2·4	24	15	5	0·28	− 0·29	*13·8*	*+ 2·9*	*21*	*+ 5*	*Newcastle.*
	p Durham	56	5th	30	10th	47·7	34·8	41·3	− 2·3	16	30	5	0·33	− 0·27	18·9	+ 4·2	31	+ 7	Durham.
	p Rounton .. M	55	5th	29	10th	47·5	35·3	41·4	− 2·0	15	27	5	0·31	− 0·33	*	*	*	*	* *
	p Scarborough.. M	55	5th	36	9th	48·4	39·1	43·8	− 1·6	25	8	5	1·00	+ 0·38	21·9	—	35	—	Scarborough.
	p York	58	5th	31	10th	48·9	37·0	43·0	− 1·4	28	14	6	0·87	+ 0·36	26·5	+14·5	43	+23	York.
	a Spurn Head ..	52	5th	37	6th	48·3	39·9	44·1	− 1·9	24	6	4	0·57	+ 0·13	*	*	*	*	* *
	a Lincoln	55	5th	33	11th	49·0	38·1	43·6	− 0·6	28	11	5	0·44	− 0·02	31·0	—	49	—	Skegness.
— b, South.	a Fulbeck	53	5th, 6th	34	10th, 11th	49·0	38·0	43·5	− 0·5	27	11	5	0·57	+ 0·10	27·5	—	44	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	55	5th, 6th	35	9th, 10th	50·7	38·0	44·4	+ 0·6	34	11	6	0·40	—	*27·8*	—	*44*	—	*Lowestoft.*
	p Hillington .. M	57	5th	32	10th	49·4	36·1	42·8	− 2·5	30	17	6	0·67	+ 0·07	28·6	—	45	—	Cromer.
	a Yarmouth .. —	57	5th	34	11th	50·4	40·0	45·2	− 0·3	31	6	4	0·66	+ 0·08	18·5	+ 3·4	29	+ 5	Hillington.
	a Norwich	55	5th, 11th	32	10th	50·1	38·5	44·3	+ 0·1	31	10	7	0·76	—	23·2	—	37	—	Yarmouth.
	p Geldeston	60	5th	34	10th, 11th	51·3	38·5	44·9	− 0·5	35	10	5	0·64	+ 0·08	*	*	*	*	* *
	p Cambridge	59	5th	31	11th	51·8	38·0	44·9	+ 0·1	37	11	5	0·81	+ 0·33	24·4	+ 7·3	39	+12	Geldeston.
— b, South.	a *Felixstowe* ..	*56*	*5th*	*36*	*11th*	*50·9*	*42·0*	*46·5*	*+ 0·1*	*32*	*0*	*4*	*0·73*	—	28·7	—	45	—	Cambridge.
	a Clacton-on-Sea ..	57	5th	37	11th	50·7	42·1	46·4	+ 0·2	31	0	4	0·67	—	*29·4*	—	*46*	—	*Felixstowe.*
	a Rothamsted ..	55	5th	31	11th	50·1	37·4	43·8	− 0·2	32	13	7	1·07	+ 0·42	27·0	+10·4	42	+16	Clacton.
	a *Shoeburyness* ..	*58*	*5th*	*37*	*11th*	*51·3*	*41·7*	*46·5*	*− 0·2*	*33*	*1*	*4*	*0·78*	*+ 0·33*	26·5	+ 9·7	41	+18	Rothamsted.
	p Tottenham	61	5th	35	11th	50·9	40·0	45·5	+ 0·1	33	6	4	1·26	—	*25·5*	—	*40*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	a Harrogate	54	5th	31	10th	46·5	35·7	41·1	− 2·4	13	25	5	0·92	+ 0·25	17·7	—	28	—	Tottenham.
	a Bawtry	53	5th	32	10th	48·7	38·4	43·6	− 0·7	26	10	4	0·63	+ 0·20	26·1	—	42	—	Harrogate.
	p *Buxton* .. M	*53*	*5th*	*24*	*11th*	*44·6*	*33·6*	*39·1*	*− 2·6*	*7*	*31*	*4*	*1·04*	*− 0·16*	24·6	+11·5	39	+18	Worksop.
	a Nottingham ..	53	5th	29	11th	48·3	37·1	42·7	− 2·0	25	14	5	0·61	+ 0·14	*23·6*	—	*38*	—	*Buxton.*
	p Birmingham, Edgbsn	56	5th	32	11th	47·9	36·8	42·4	− 1·1	25	15	7	1·11	+ 0·56	19·6	—	31	—	Nottingham.
	a Raunds .. M	55	5th	30	11th	50·3	36·7	43·5	− 0·5	33	15	7	0·74	—	18·4	—	29	—	Birmingham.
— b, West.	a Oxford	55	5th	32	11th	51·3	39·0	45·2	+ 0·2	35	8	6	0·99	+ 0·43	*	*	*	*	* *
	a Cheadle .. M	52	5th	26	11th	47·1	35·1	41·1	− 2·4	14	28	7	1·08	+ 0·42	24·0	+ 8·0	38	+13	Oxford.
	p Shrewsbury	57	5th	28	11th	50·1	36·3	43·2	− 1·8	32	16	5	1·22	—	32·0	—	51	—	Sheffield.
	a Hereford .. M	53	7th	29	11th	47·1	38·1	42·6	− 2·1	21	11	6	1·50	+ 0·94	*	*	*	*	* *
	a Cirencester	55	5th	28	11th	48·0	36·4	42·2	− 1·2	25	16	6	1·31	+ 0·64	*	*	*	*	* *
	a Bath	56	5th, 7th	27	11th	51·6	37·9	44·8	− 1·2	37	11	5	1·67	+ 0·98	19·3	+ 3·3	30	+ 5	Cirencester.
5. ENGLAND, S.E.	p Kew	59	5th	34	11th	50·4	39·1	44·8	− 0·6	22	8	6	1·13	+ 0·59	24·0	—	38	—	Bath.
	a Marlborough ..	54	5th, 11th	26	11th	49·4	37·1	43·3	− 0·4	30	14	7	1·56	+ 0·79	*24·0*	—	*38*	—	*Ramsgate.*
	a Margate	59	5th	36	11th	51·8	42·0	46·9	− 0·1	34	0	5	1·62	+ 1·02	25·0	+10·9	39	+17	Kew.
	a Wisley, Surrey ..	56	5th	31	11th	50·8	38·9	44·9	− 1·2	33	9	5	1·22	—	19·7	+ 4·6	31	+ 7	Marlborough.
	a Swarraton .. M	55	5th	25	11th	49·8	37·4	43·6	− 0·8	31	13	7	1·76	+ 0·99	24·0	+ 6·8	38	+11	Margate.
	a Tunbridge Wells M	—	—	—	—	—	—	—	—	—	—	—	—	—	26·3	—	41	—	Wisley.
	a Dungeness	58	5th	36	11th	52·6	43·0	47·8	0·0	41	0	6	3·50	+ 2·88	19·2	—	30	—	Worthing.
	p Hastings	58	5th	35	11th	52·5	40·5	46·5	− 1·0	38	4	6	3·44	+ 2·68	—	—	—	—	Tunbridge Wells.
	p Southampton ..	58	5th	30	11th	52·1	39·9	46·0	− 1·1	37	6	5	1·83	+ 1·06	21·0	—	33	—	Littlestone.
	a Ventnor	59	5th	39	11th	53·4	44·1	48·8	− 0·1	48	0	7	3·05	+ 2·42	*19·5*	*+ 0·1*	*30*	*0*	*Hastings.*
LONDON .. —	a *Westminster* ..	*58*	*5th*	*34*	*11th*	*52·4*	*41·7*	*47·1*	*+ 1·6*	*37*	*1*	*5*	*1·12*	*+ 0·58*	22·3	+ 4·8	35	+ 8	Southampton.
	a *Greenwich*	*57*	*5th*	*34*	*11th*	*51·3*	*39·4*	*45·4*	*0·0*	*35*	*7*	*6*	*1·29*	*+ 0·74*	17·3	− 2·0	27	− 3	Ventnor.
															17·1	− 1·3	26	− 2	Eastbourne.
															20·9	*+12·2*	*33*	*+19*	*Westminster.*
															26·3	*+13·2*	*41*	*+21*	*Greenwich.*
6. — a, SCOTLAND. W.	a Poltalloch .. S	49	7th	27	10th	45·9	36·1	41·0	− 3·6	11	23	4	2·21	+ 0·99	*	*	*	*	* *
	p Glasgow	53	5th	30	10th	45·6	36·1	40·9	− 3·1	10	24	4	1·46	+ 0·64	7·2	− 1·9	12	− 3	Glasgow.
	p Rothesay .. S	53	5th	30	10th	46·9	36·6	41·8	− 2·9	14	23	5	2·45	+ 1·41	*	*	*	*	* *
	a Kilmarnock ..	49	7th	22	10th	45·1	35·3	40·2	− 3·4	9	26	4	0·97	—	*10·3*	—	*17*	—	*Kilmarnock.*
	a Colmonell .. S	52	7th	25	10th, 11th	45·2	35·6	40·4	− 3·3	9	25	5	0·60	− 0·58	*	*	*	*	* *
	p Dumfries .. S	57	5th	31	10th	47·4	36·1	41·8	− 2·3	15	25	5	1·18	+ 0·29	*14·3*	—	*23*	—	*Dumfries.*
	p Cally, Gatehouse S	50	5th	28	10th	45·6	35·9	40·8	− 3·1	10	24	4	0·49	− 0·74	*	*	*	*	* *
— b, ISLE OF MAN ..	p Douglas	55	5th	35	10th, 11th	48·1	39·1	43·6	− 2·6	23	8	5	1·33	+ 0·25	19·1	+ 2·6	31	+ 4	Douglas.
															26·3	—	42	—	Hoylake.
7. — a, ENGLAND, N.W.	p Aspatria	50	7th	26	10th	45·7	36·2	41·0	− 3·0	10	23	6	1·21	+ 0·24	12·6	—	20	—	Aspatria.
	p Newton Rigg ..	55	5th	27	10th, 11th	45·1	34·3	39·7	− 2·8	9	29	6	0·89	+ 0·05	7·8	− 5·9	13	−10	Newton Rigg.
	p Stonyhurst	56	5th	25	11th	46·9	36·6	41·8	− 2·0	14	23	5	1·03	− 0·01	15·2	+ 2·1	25	+ 3	Stonyhurst.
	p Blackpool .. M	58	5th	25	11th	48·1	37·7	42·9	− 2·9	24	12	6	0·86	+ 0·01	11·7	− 2·1	19	− 3	Blackpool.
	p M'nch'ster, Prestwich	52	7th	31	11th	47·7	37·0	42·4	− 2·1	24	14	6	0·74	− 0·06	*16·0*	*+ 6·7*	*25*	*+11*	*Prestwich.*
	a Liverpool (Bidston)	52	7th	32	11th	47·7	38·4	43·1	− 2·2	23	10	4	0·63	− 0·02	*24·5*	—	*39*	—	*Liverpool.*
	a Hawarden Bridge ..	54	7th	28	11th	48·4	36·6	42·5	− 4·0	26	15	5	0·86	+ 0·29	*19·7*	—	*32*	—	*Southport.*
															29·5	—	*47*	—	*Rhyl.*
8. — a, SOUTH WALES	a Llangammarch Wells	52	7th	25	11th	46·6	34·1	40·4	− 3·2	13	31	6	1·89	—	20·5	+ 6·1	33	+10	Llandudno.
	a Pembroke	60	5th	36	11th	52·4	45·1	48·8	− 0·1	48	0	7	2·49	+ 1·59	12·5	—	20	—	Aberdovey.
	p Cardiff	55	5th	31	11th	49·3	37·6	43·5	− 1·8	29	12	7	2·46	+ 1·48	—	—	—	—	Bettws-y-Coed.
— b, ENGLAND, S.W.	a Clifton	55	5th	33	11th	49·6	40·6	45·1	− 0·9	28	4	6	2·01	+ 1·24	21·1	—	24	—	Aberystwyth.
	a Shaftesbury .. M	54	5th	33	11th	48·8	37·7	43·3	− 1·7	27	12	6	1·07	+ 0·27	21·4	—	33	—	Llangammarch Wells.
	a Arlington	53	5th	30	11th	48·7	38·1	43·4	− 2·2	26	11	6	3·45	+ 2·07	15·1	− 1·9	24	− 3	Pembroke.
	a Cullompton .. M	57	5th	28	11th	52·8	37·5	45·2	− 0·8	41	13	7	1·91	+ 1·07	*18·3*	—	*29*	—	*Cardiff.*
	a Portland Bill ..	56	5th, 7th	42	11th	52·9	45·7	49·3	+ 0·3	51	0	6	0·97	—	*21·5*	*+ 4·0*	*34*	*+ 6*	*Tenby.*
	p Plymouth	58	5th	31	11th	53·1	40·2	46·7	− 1·7	40	5	7	1·95	+ 1·08	23·7	+ 8·3	37	+13	Cullompton.
	p Falmouth	57	5th	39	9th, 11th	51·5	41·5	46·5	− 2·7	34	1	7	1·97	+ 0·85	*25·0*	—	*38*	—	*Weymouth.*
															22·1	+ 4·1	34	+ 6	Plymouth.
															29·9	+ 9·4	46	+15	Falmouth.
															26·4	—	*41*	—	*Salcombe.*
															29·2	*+11·4*	*45*	*+18*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	49	7th	35	9th, 11th	46·7	39·4	43·1	− 3·2	19	7	5	1·24	+ 0·50	*	*	*	*	* *
	a Blacksod Point ..	51	7th	36	9th, 10th	48·0	39·0	43·5	− 4·0	23	8	5	1·53	+ 0·33	*	*	*	*	* *
	p Markree Castle ..	56	5th	26	10th	48·4	33·1	40·8	− 3·7	18	36	5	1·84	+ 0·87	16·8	+ 2·0	27	+ 3	Markree Castle.
	a Birr Castle	54	7th	28	10th, 11th	48·1	34·6	41·4	− 3·2	17	31	5	1·29	+ 0·54	*22·1*	*+ 5·3*	*35*	*+ 8*	*Birr Castle.*
— b, East.	p Armagh	51	7th	23	11th	46·2	32·4	39·3	− 5·3	12	37	6	0·82	+ 0·16	19·0	+ 3·6	31	+ 6	Armagh.
	a Donaghadee	51	7th	32	9th	47·1	38·0	42·6	− 3·4	21	11	6	0·42	− 0·29	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	57	5th	31	10th, 11th	48·2	36·1	42·2	− 4·6	26	17	6	0·84	+ 0·19	21·8	+ 3·1	35	+ 5	Phœnix Park.
	a Kilkenny	52	7th	25	11th	47·3	32·7	40·0	− 5·0	15	36	7	1·40	+ 0·66	*	*	*	*	* *
	a Waterford	54	7th, 9th	30	5th, 9th	51·9	36·4	44·2	− 2·3	39	16	6	1·27	+ 0·35	*	*	*	*	* *
— b, West.	a Birr Castle	54	7th	28	10th, 11th	48·1	34·6	41·4	− 3·2	17	31	5	1·29	+ 0·54	22·1	+ 5·3	35	+ 8	Birr Castle.
	a Foynes	54	5th	34	10th	49·6	37·4	43·5	− 3·0	30	13	7	1·07	+ 0·15	*	*	*	*	* *
	a Cahir .. .. M	52	7th	29	9th	47·6	33·6	40·6	− 5·7	16	33	7	1·85	—	*	*	*	*	* *
	a Killarney	53	7th	35	10th	49·9	38·1	44·0	− 2·9	30	11	7	2·12	+ 0·78	*	*	*	*	* *
	a Valencia	53	7th, 11th	34	9th	50·7	39·7	45·2	− 3·6	32	6	7	1·34	+ 0·04	19·7	+ 2·3	31	+ 4	Valencia.
	a Roche's Point ..	53	7th	33	9th, 11th	49·7	38·9	44·3	− 4·1	29	9	7	1·57	+ 0·58	24·4	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	56	8th	40	9th	53·1	44·6	48·9	− 2·1	48	0	7	1·36	+ 0·56	22·7	+ 2·5	35	+ 4	Scilly.
	a Jersey, St. Aubins ..	59	5th	43	9th, 11th	54·6	46·1	50·4	+ 0·1	59	0	7	2·29	+ 1·36	25·0	+ 4·2	38	+ 6	St. Helier's.
	a Guernsey	57	5th	41	9th	52·2	45·0	49·1	− 1·3	50	0	7	3·05	+ 2·01	23·5	+ 6·0	36	+ 9	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 18·5 hrs.* (− *0·7 hrs.*), *29* % (− *1* %); *Bournemouth, 23·2 hrs., 36* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	41·2	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	46·6
	Crathes	4	21	41·6	46·7
	Balmoral	4	23	—	—
	West Linton.. ..	—	—	—	—
	Marchmont ..	3	27	40·4	—
2.	Cockle Park	3	24	39·8	45·9
	Durham	3	22	—	—
	York	—	—	43·1	50·8
	Hull	2	26	44·0	50·3
	Lincoln	—	—	44·0	49·5
	Rauceby	4	24	45·3	51·7
3.	Norwich	4	25	—	—
	Yarmouth	—	—	44·3	51·4
	Lowestoft	1	30	45·0	51·5
	Cambridge	3	25	45·5	51·7
	Clacton-on-Sea ..	—	—	48·6	52·7
	Southend	2	27	48·3	—
	Tottenham	2	28	—	53·5
4.	Harrogate	2	24	44·4	47·8
	Huddersfield ..	3	25	43·1	49·4
	Buxton	5	19	43·1	50·0
	Sheffield	2	28	44·6	49·8
	Nottingham.. ..	2	25	42·6	49·6
	Birmingham.. ..	2	21	44·7	50·2
	Oxford	1	26	—	—
	Hereford	2	23	—	—
	Cirencester	3	26	46·3	50·7
	Bath	—	—	47·8	52·3
5.	Margate	0	32	47·9	51·6
	Greenwich	2	27	—	—
	Westminster ..	1	28	—	—
	Kew	4	24	46·0	51·9
	Canterbury	2	30	47·4	49·5
	Tunbridge Wells ..	—	—	—	—
	Wisley	3	20	46·2	51·6
	Worthing	2	24	48·6	53·7
	Portsmouth	1	24	46·7	53·5
6.	Glasgow	3	15	—	—
	Rothesay	—	—	—	47·9
	Colmonell	3	23	—	—
6.	Dumfries	2	23	43·4	48·6
	Douglas	2	29	—	—
7.	Aspatria	3	17	44·2	49·0
	Newton Rigg ..	4	18	44·6	48·2
	Burnley	2	17	43·5	48·9
	Southport	3	20	43·4	48·8
	Manchester City ..	1	29	44·6	51·3
	Bettws-y-Coed ..	—	—	—	—
8.	Llangammarch Wells	6	11	46·2	51·3
	Cardiff	2	25	45·7	51·6
	Clifton	1	28	—	—
	Plymouth	3	25	48·9	—
9.	Armagh	3	20	44·2	49·8
	Markree	4	20	45·7	51·5
10.	Dublin, Trin. Coll. ..	4	19	45·4	50·7
11.	Guernsey, Brooklyn	1	29	50·9	55·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	49	47	48·8
	Kirkwall	42	41	41·2
	Wick	50	49	49·5
SCOTLAND E.	Cromarty	46	44	44·4
	Pennan Bay	47	45	46·6
	Aberdeen, Cove Bay ..	48	47	47·7
ENGLAND, N.E.	Burnmouth, Berwick ..	47	45	46·1
	Scarborough	50	40	44·5
ENGLAND, E.	Shipwash Lightship ..	53	49	51·5
	Margate‡	53	50	51·5
ENGLAND, S.E.	Eastbourne‡	54	50	52·1
SCOTLAND, W.	Lamlash	50	46	47·9
	Ballantrae	49	41	45·4
	Port Erin	53	50	51·4
ENGLAND, N.W.	Newquay	55	53	54·0
	Scilly	52	51	51·9
ENGLAND, S.W.	Plymouth‡	52	51	51·4
	Salcombe	55	52	53·4
IRELAND, N.W.	Sheephaven	50	42	46·5
	Teelin	53	46	47·9
IRELAND, S.W.	Cleggan	47	43	45·7
	Seafield	53	48	50·1
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤇ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

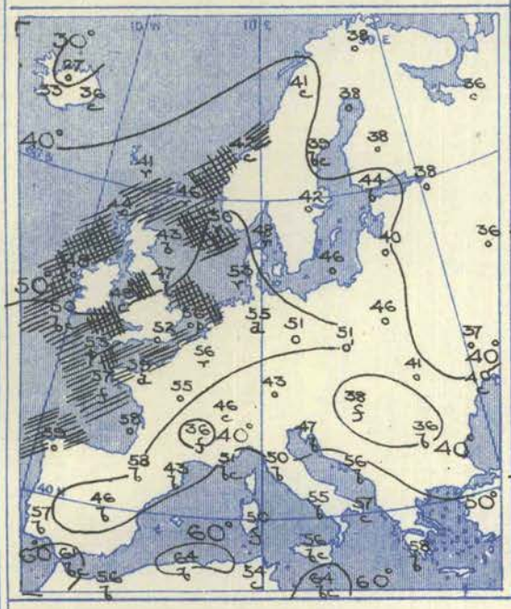
The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

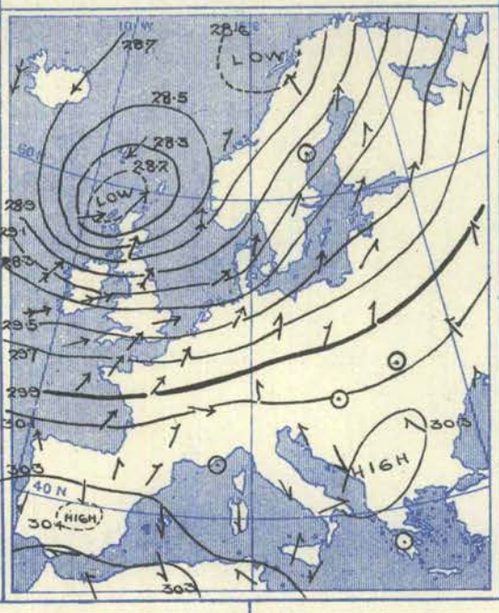
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 5th November, 1911.

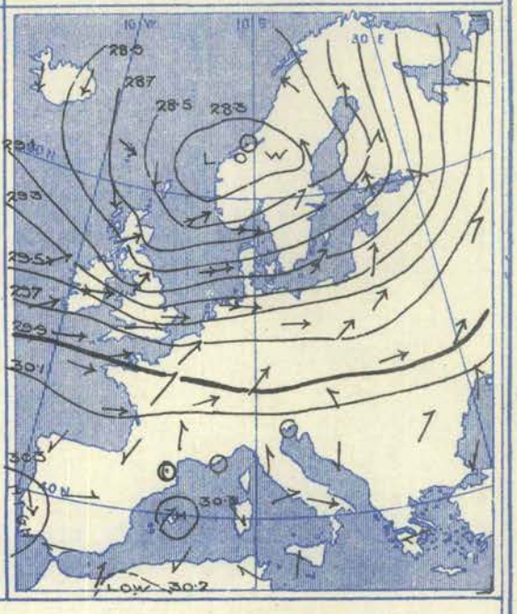
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning extremely rough and stormy over the United Kingdom and north-western Europe generally, with rain in places over a wide area. Fair to bright over the southern countries and the Mediterranean. Rain experienced later except in Italy, Austria, the southern parts of France and Spain and in some other southern regions. Thunder and lightning occurring at Birr Castle.

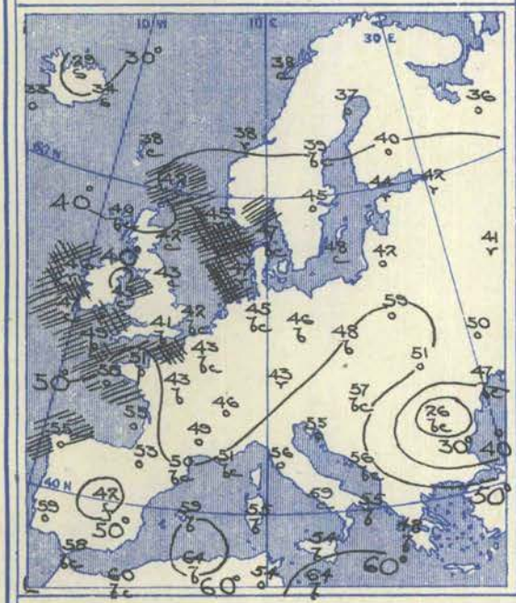
Temperature risen over these Islands, France, the Netherlands, and central Europe. Morning readings above 60° at a few stations in the far south and above 50° in the south generally, as well as in England, the Netherlands, and Denmark. Below 40° in Russia and the north of Sweden, and also over a large area in the south-east of Europe, at Lugano, and Lyons. Rising to 60° later at Pembroke and Llandudno and to above 55° over England and Wales as a whole. Thermometer exceeding 60° at most stations in the south of our area and rising to 70° or higher in places.

Wind in morning showing a well-marked and extensive cyclonic circulation over the greater part of our area. South-Westerly to Southerly current over these Islands, the Baltic region, and Scandinavia strong to a strong gale generally. A Northerly gale prevalent in Iceland, and gales from North-West or West blowing over a large area on the Atlantic. Gale continuing all day, but direction veering to the Westward in most parts of these Islands and on the eastern shores of the North Sea. Southerly gale extending to the Gulf of Finland by evening. Variable winds, mostly of little force, prevailing throughout over the Mediterranean region.

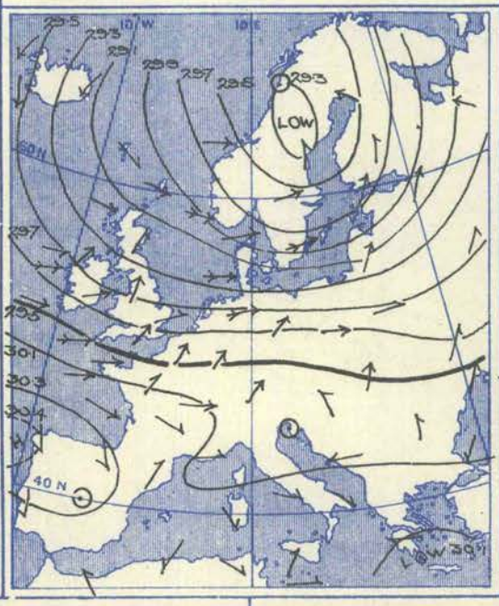
Barometer in morning below 28·2 in. in a very large disturbance having its minimum off the north of Scotland; above 30·3 in. over a large area in the south of Europe and the north of Africa. Gradient unusually steep over the United Kingdom and the surrounding regions. Depression moving to Scandinavia during day and gradient in its front increasing considerably over Finland and northern Russia. Becoming rather less steep in nearly all parts of these Islands.

Monday, 6th November, 1911.

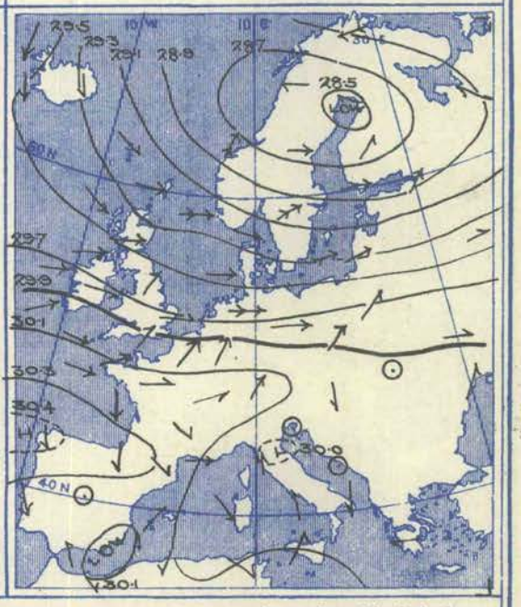
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rough and unsettled over north-western, northern, and central Europe, with rain or passing showers in several localities. Mostly fair to bright over the south of our area, but rain falling at Bilbao and Toulouse. Rain experienced later over a large portion of this country and a considerable area over the northern half of the Continent. Quantity slight or moderate generally, but as much as 1·2 in. measured at Christiansund.

Temperature fallen over these Islands and their neighbourhood. Morning readings ranging from 26° at Hermanstadt and below 40° at several stations in the far north of the Continent and also at Wick and Donaghadee to above 50° in some places in central Europe, and to above 60° at various stations on the shores of the Mediterranean. Remaining below 50° throughout day in many parts of the United Kingdom and only slightly exceeding that point in the Netherlands and Germany, but touching 61° at Vienna, and rising to above 70° at a few places in the extreme south.

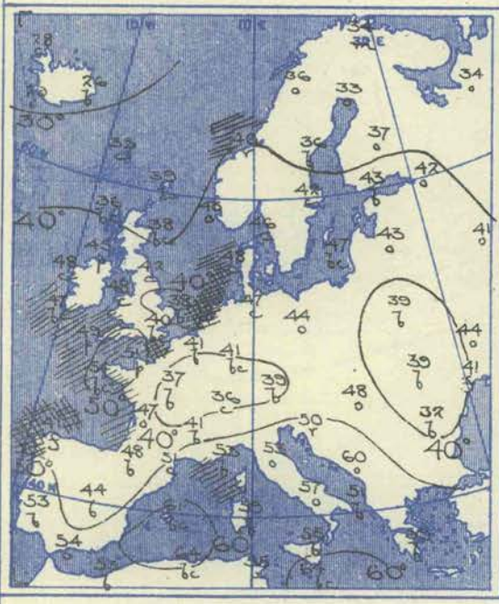
Wind in morning cyclonic except in the south. Westerly current over these Islands fresh or strong in many places and blowing a gale on some parts of our western and southern coasts. A Westerly gale also prevalent over the North Sea, Denmark, and the Baltic, and a South-West gale at Berlin. Strong Northerly winds and gales blowing in Iceland and very strong winds or gales from the Westward on the Atlantic. Light, variable airs general over the Mediterranean region. No change of importance during day. Wind continuing strong to a gale over all the more northern countries and seas.

Barometer in morning below 28·3 in. in a large depression centred over the north of Scandinavia; above 30·4 in. between the Azores and Spain, and relatively high in the south generally. Gradients for Westerly wind unusually steep over the Baltic and its neighbourhood. Barometric minimum travelling eastward during day and depression becoming less deep. Not much modification occurring in the general distribution of pressure, but gradient becoming less steep over Europe as a whole. A fresh fall of the mercury setting in in Ireland during night.

Tuesday, 7th November, 1911.

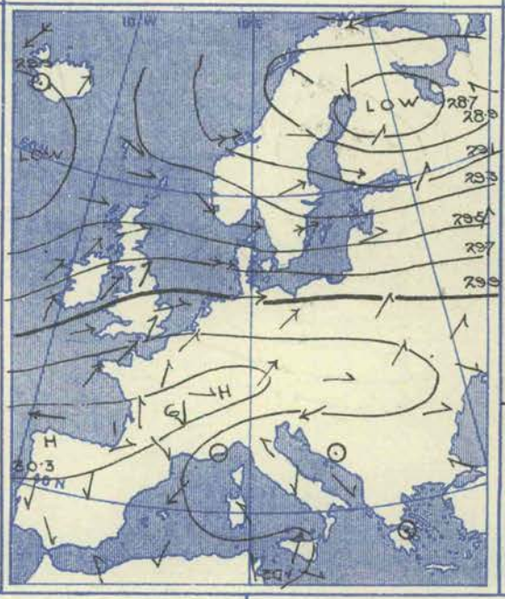
Temperature and Weather.

7 a.m.

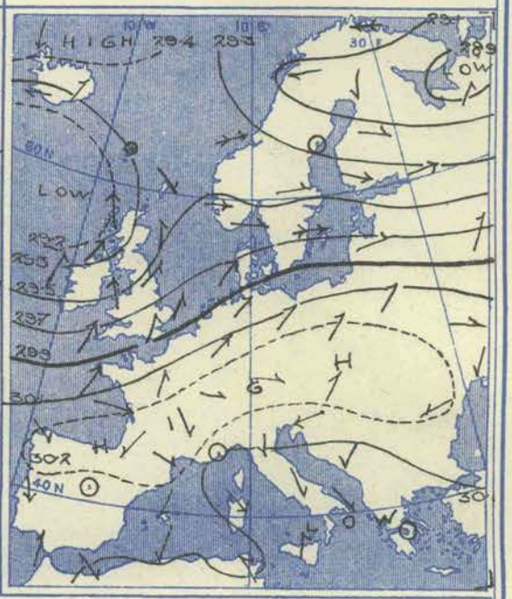


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning mainly cloudy or overcast, but fine over a considerable area in the south. Rainy in the south-west of England and at a few scattered places on the Continent. Rain later in all parts of these Islands and in many Continental localities; more than 0·5 in. in the south of Kent and at Newquay, 1·0 in. at Dunkirk, and 1·2 in. at Christiansund.

Temperature fallen somewhat in most regions. Morning readings ranging from below 40° in central France, Scotland, and at various places in the north of Europe to above 50° on most shores of the Mediterranean, and to 60° or above in a few places. Maxima during day above 50° at most stations in these Islands, central Europe, the Netherlands, and the north of France, above 60° over a wide area in the south, 70° at Barcelona and Patras, 71° at Palermo and Malta.

Wind in morning mainly Westerly over the northern half of our area, moderate or fresh generally, but fresh to strong in many districts. A strong wind from the Eastward prevailing at Vardö. A cyclonic circulation of light to fresh winds over Italy and its vicinity. Backing to the Southward and increasing to a gale later on our western and southern coasts, and also in Caithness. Easterly wind at Vardö increasing to a gale.

Barometer in morning above 30·3 in. in a band extending from the Azores to Bavaria; below 28·7 in. in a large depression over northern Europe, and below 29·3 in. in another on the Atlantic south of Ireland. Relatively low over Italy. Pressure giving way quickly during day in the west and north of the United Kingdom and gradient growing steep. Not much change elsewhere; northern depression moving eastward.

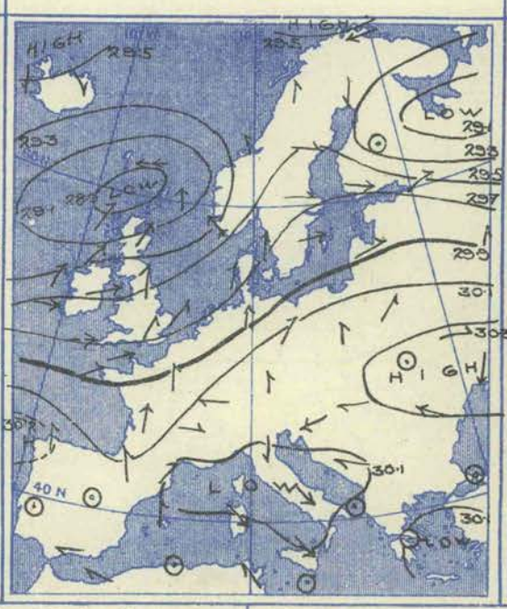
Wednesday, 8th November, 1911.

Temperature and Weather.

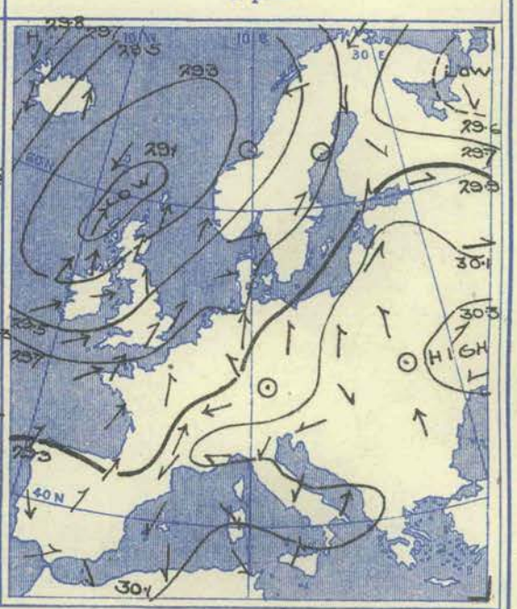
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy or showery in several parts of these Islands, with thunder at Valencia, and very cloudy or overcast at most of our stations. Variable on the Continent; fair to fine over a large area in the south, but rainy in the south of France and at some Italian stations. Rain experienced later over a wide area in these Islands and on the Continent; 0·9 in. at Dungeness, 2·4 in. at Cape Gris Nez, 0·9 in. at Biarritz, 1·3 in. at Nice, and 2·2 in. at Cagliari.

Temperature fallen in many regions, but changed rather irregularly. Morning readings ranging from about 60° at a few places in the far south to below 40° over the greater portion of our area, and to below 32° in some parts of central Europe. Remaining below 50° throughout in most parts of the United Kingdom and at many places in the central countries. Maxima above 65° at many stations in the south of our area, and about 70° in several localities. Minima at night below 32° in Scotland and very little above it in the central parts of England and Ireland.

Wind in morning showing an extensive cyclonic circulation over the United Kingdom and much of the surrounding region. North-Westerly current blowing a gale on the Atlantic some distance off Ireland, and South-Westerly current fresh or strong on our western coasts generally, a gale at Blacksod Point. A gale from South-East prevailing at Skudesnaes and from East at Thorshavn. Light breezes general in the far south of our area, but strong breezes at Trieste and Pesaro. Some decrease in force taking place during day in these Islands and gale subsiding at Skudesnaes and Thorshavn.

Barometer in morning above 30·3 in. in the south of Russia; and nearly as high between Spain and the Azores. Below 28·9 in. in a depression centred off the north of Scotland, and below 29·1 in. in another in the extreme north-east of our area. Depression becoming less deep during day and undergoing some modification in form, but remaining in almost the same position. Russian disturbance travelling away. Pressure increasing and becoming highest in the neighbourhood of the Azores.

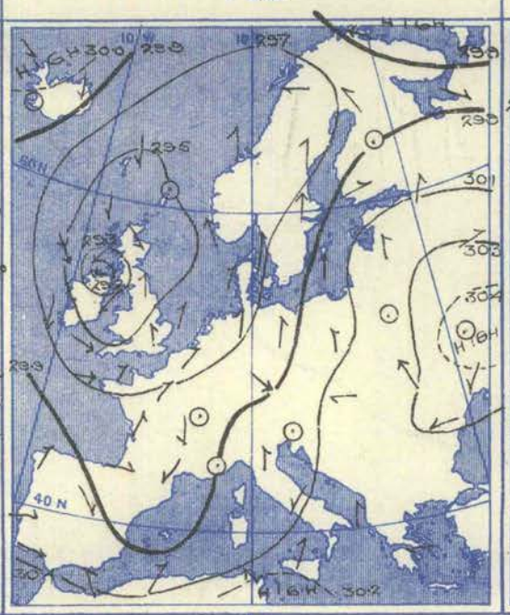
Thursday, 9th November, 1911.

Temperature and Weather.

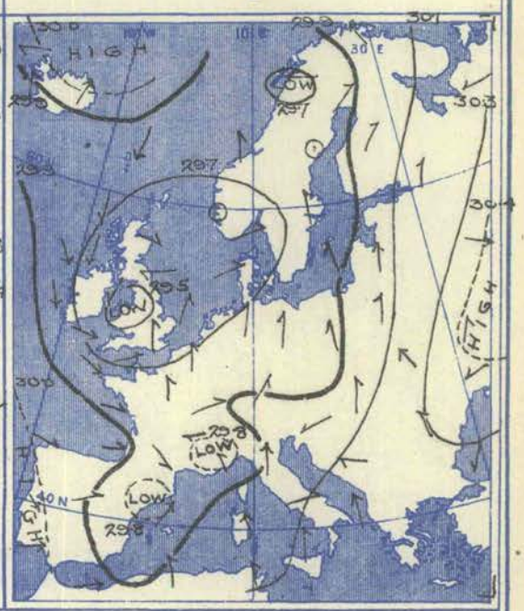
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in France, the north of Italy, and at a few of our own stations, as well as in the south of Spain; a thunderstorm prevailing at San Fernando. Generally cloudy or overcast elsewhere, but bright in the extreme south and south-east of our area. Rain later over these Islands and a large portion of the Continent; about 0·8 in. at Dover and Cape Gris Nez, 1·5 in. at Pembroke, 1·2 in. at Nice and Biarritz, 2·0 in. at Lugano, 2·6 in. at Geneva, and 3·5 in. at Gap. A thunderstorm occurring at Cherbourg.

Temperature fallen over these Islands and the nearer countries of the Continent. Morning readings ranging from below 30° in the north-east of Scotland and at Kharkoff to about 50° at many stations in the south of our area, and to 67° and 68° respectively at Algiers and Palma. Thermometer remaining below 50° in nearly all parts of these Islands during day and also at many stations in the north and east of France and in various districts of central Europe and northern Italy. Maxima about 70° at some places in the extreme south and as high as 77° at Cape de Garde.

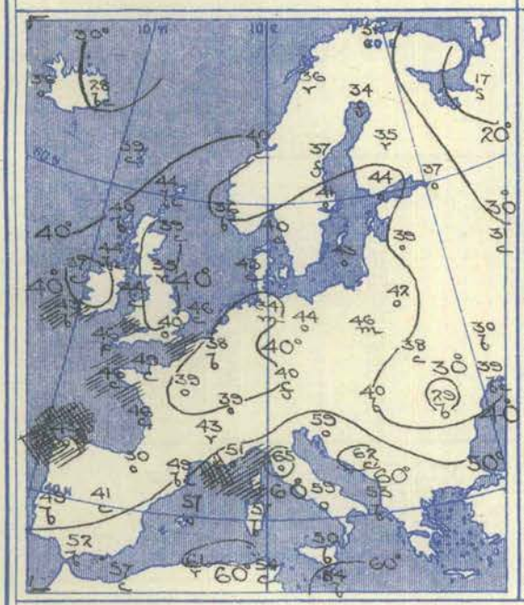
Wind in morning cyclonic except over Russia. Northerly current fresh to a gale in the north and west of Ireland, but little force generally elsewhere. A strong breeze from North-West prevailing at San Fernando and a gale from the South-Westward at Palma. A strong Northerly wind prevalent on the Atlantic off the west of Ireland. Increasing in force from the North-Westward later on our western coasts, and reaching gale force at Holyhead and Scilly. No general change occurring.

Barometer in morning below 29·2 in. in a depression centred over the north of Ireland, and relatively low thence to the south of France and the Mediterranean; above 30·4 in. in the south of Russia and also at the Azores. Irish depression moving south-eastward later and becoming less deep. General distribution of pressure remaining without much modification, but some minima forming in the south of France and the adjacent part of Spain. Pressure giving way again in the west of Iceland by evening.

Friday, 10th November, 1911.

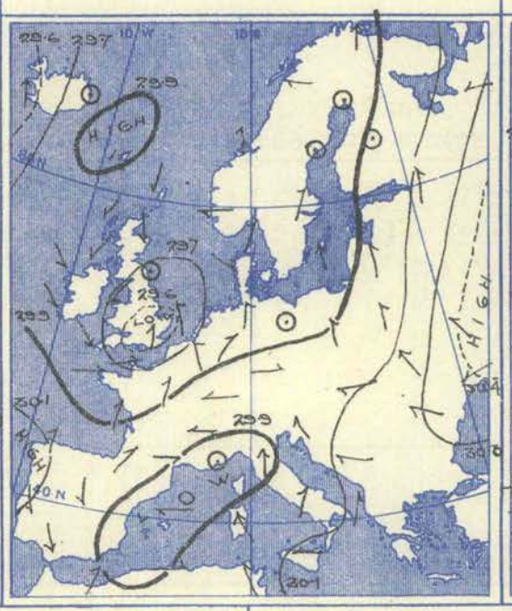
Temperature and Weather.

7 a.m.

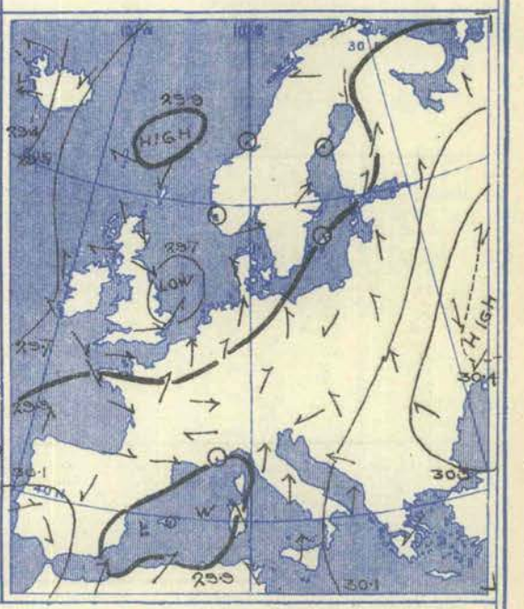


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine in places, but mostly very cloudy or overcast, with rain at some stations both in these Islands and on the Continent as well as at Algiers. Rain experienced later over a large portion of our area; more than 1·1 in. at Cape Gris Nez, 0·95 in. at Lugano, and 0·8 in. at Alicante. A thunderstorm occurring at Dover during the morning.

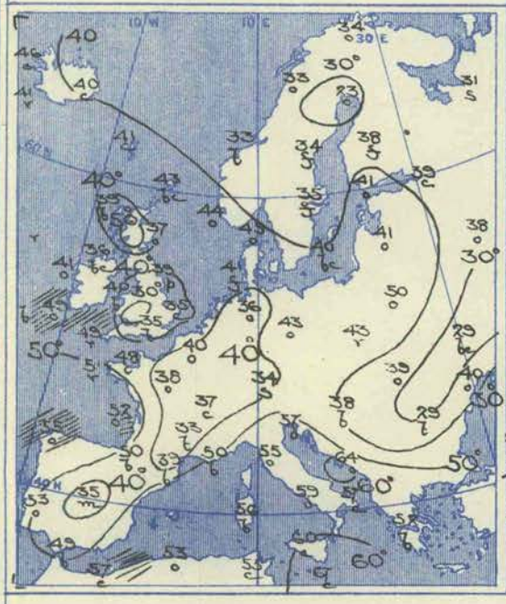
Temperature changed irregularly; risen in most parts of Great Britain. Morning readings below 40° over a large area in these Islands and France, below 32° very generally in Russia, and as low as 17° at Archangel. Above 50° at most stations on the shores of the Mediterranean, and above 60° at a few stations. Remaining below 45° throughout in some English localities and in the east of France, and only touching 46° at Turin. Rising to about 70° at various places in the far south of our area, and reaching 75° at Palermo. Frost at night in many parts of Great Britain and central Ireland.

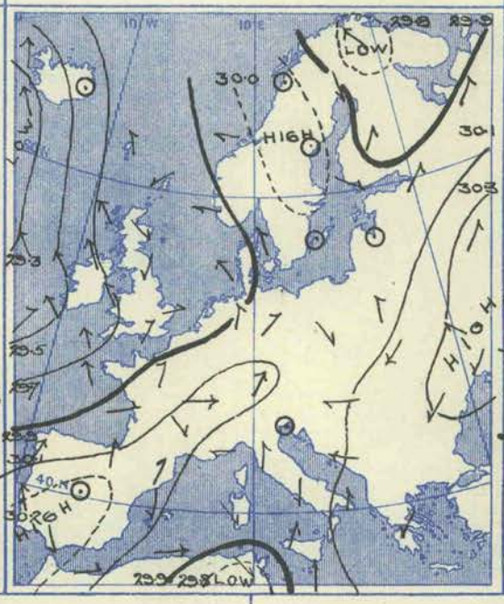
Wind in morning generally cyclonic except over Russia and the adjacent regions, but of little force. North-Westerly to South-Westerly current fresh to strong on the English Channel, and a strong breeze from North-West prevailing in the south of Spain. Backing to the Southward by evening in the west of Ireland, and increasing to a high wind from East in the south-west of Iceland. A strong breeze from South or South-East springing up at Leghorn and Lesina.

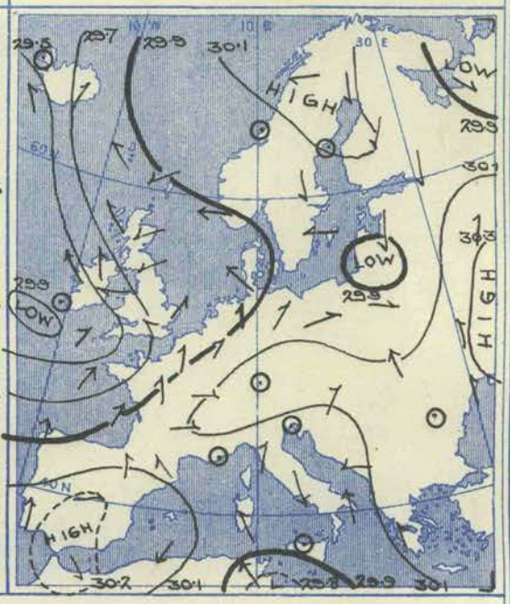
Barometer in morning below 29·6 in. in a shallow depression over England and below 29·9 in. in an irregularly shaped area over the western portion of the Mediterranean; still lower in a more important system far out on the Atlantic. Above 30·5 in. in central and southern Russia and above 30·2 in. between Madeira and the Azores. Depressions moving eastward later; barometer falling quickly in Iceland and beginning to fall in Ireland.

Saturday, 11th November, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning varying a good deal, but cloudy or overcast in most regions and showery or rainy at some of our own stations and at a few on the Continent. Snow falling at Archangel, and also at Munich. More than an inch of rain later over the south of England and the adjacent part of France. Rain falling over northern and central Europe generally, and also in Algeria and at Tunis. As much as 3·4 in. in the latter region.

Temperature fallen in most districts. Morning readings below 32° at Hermanstadt and over a wide area in Russia, the English midlands and north-east of Scotland; below 40° over the major portion of our area. Above 55° at a few stations in the far south and as high as 67° and 70° at Malta and Tunis respectively. Maxima during day above 50° very generally in England and France, and above 60° over the south of Europe; thermometer touching 70° in places. Maxima below 50° in Germany and Austria and only 52° at Turin.

Wind in morning Southerly to South-Easterly in the west and north-west of these Islands and in Iceland and light to fresh in force. Mainly between East and North over the Mediterranean region, and fresh to strong in places. A cyclonic circulation prevailing over the North Sea, the South-Westerly current blowing a strong breeze at the Helder. Increasing to a gale by night on some parts of our western and south-western coasts and blowing a strong breeze on the Bay of Biscay and on the coasts of the Peninsula. Shifting to the Eastward in Scotland.

Barometer in morning above 30·3 in. in central and southern Russia, and nearly as high in Spain and thence to Madeira. Below 29·8 in. in a depression over Tunis and in another filling up over the North Sea, and below 29·1 in. in a deep system far to the westward of Ireland Atlantic disturbance moving much nearer these Islands during day, and a small secondary travelling across England at night. Gradient growing steep over the United Kingdom generally.

REGISTERING BALLOON ASCENT.

PYRTON HILL, October 5th, 1911. 5.3 p.m.

Height Km.	Pressure. Mgd. per c².	Temperature A.°	Humidity % Down.	Humidity % Up.	Height Km.	Pressure. Mgd. per c².	Temperature A°.	Humidity % Down.	Humidity % Up.
Ground	·998	284.5	100	85	7·0	·413	241		
0·5	·955	282	100	80	8·0	·359	235		
1·0	·898	278·5	100	75	9·0	·311	227		
1·5	·844	274	100	85	10·0	·270	223		
2·0	·795	271	100	100	11·0	·231	224		
2·5	·745	269	95	95	12·0	·198	225		
3·0	·700	265·5	90	95	13·0	·171	224	40	
3·5	·657	265	80	90	14·0	·148	223		
4·0	·617	262	80	60	15·0	·127	223		
4·5	·578	258	55	55	16·0	·108	222·5		
5·0	·542	255	50	50	17·0	·093	222		
6·0	·475	248	45	45	18·0	·080	221·5		
					18·6	·074	221		

Minimum temperature.	221 °A at 18·6 km.
Hc ; Tc	10·0 km. 223 ° A
Place of fall.	Near Dorchester.
Distance (km.)	137.
Direction.	45°.
Gradient, °C per 100 m.	0·62°.
Ground to	10 km.

NOTES.—Overcast. Moderate N. wind (force 3).
The Humidities are obtained by means of the hair hygrometer, on the supposition that hair contracts by 1 per cent. of its length with the change from saturation to complete dryness, and that the scale is linear. The values are approximately correct in the lower strata, but are, to say the least, open to doubt in the higher strata.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 46. FORTY-SIXTH WEEK, SUNDAY, NOVEMBER 12TH, TO SATURDAY, NOVEMBER 18TH, 1911. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was mostly dull and unsettled. Over a large portion of the Kingdom rain was experienced daily, some of the amounts being very large. Sleet and snow were common in the north and east of Scotland late in the week. Aurora was observed in some Scottish localities on the 16th, and thunder occurred at Waterford on the 17th.

Temperature was above the normal in all districts except Scotland N.; in England E. the excess was as much as 4·6°. The highest of the maxima were registered, as a rule, during the earlier half of the week, and ranged from 60° in England E., 59° in some other English districts, to 55° in Scotland W., and to 54° in Scotland N. The lowest of the minima occurred on rather irregular dates; at many stations on the 12th, but over a larger area in Ireland and the west and north of Britain they were recorded much later in the period. The values ranged from 25° in Scotland E., and 26° in Scotland W., to 35° in Ireland, and to 43° in the English Channel. The lowest grass readings reported were 20° at Llangammarch Wells (on the 12th), 23° at Newton Rigg, and 24° at Burnley.

Mean Temperature of the Sea. On the west coast of Scotland and the south-west coast of England, the water was colder than during the corresponding week of last year, but on nearly all other coasts it was warmer. The means for the week ranged from 53° at Newquay, 52° at Scilly and Salcombe, and 51° off the south-east and east of England, and also at Port Erin, to 44° at Ballantrae and to 41° at Kirkwall.

Rainfall was greatly in excess of the average. Falls of more than an inch in 24 hours occurred on various dates in all parts of the Kingdom. Among the largest measurements were 1·43 in. at Llangammarch Wells on the 13th, 1·46 in. at Valencia on the 14th; 1·11 in. on the 14th, and 1·24 in. on the 15th at Gordon Castle; 1·51 in. at Fort Augustus on the 16th; and 1·64 in. at Nairn and 1·20 in. at Marchmont on the 17th. On the 18th the heaviest rain occurred in the east and south-east of England; 1·23 in. at Geldeston, 1·49 in. at Lowestoft and 1·55 in. at Hillington. At Worthing the measurement was 0·96 in. on the 16th, 1·35 in. on the 17th, and 0·96 in. on the 18th.

Bright Sunshine equalled the average in Ireland N., and slightly exceeded it in the English Channel, but generally it was below it. In Scotland E. and England E. the percentage of the possible duration was as low as 8, in Scotland N. 10, and in England S.E. and N.W. 12.

Barometer and Wind. Large and deep cyclonic systems from the Atlantic maintained a Southerly to South-Westerly type of pressure distribution, and strong winds or gales were the rule—sometimes in the West and South-West only, but occasionally over the whole Kingdom. The most important disturbance began to affect the barometer and winds on the west coast of Ireland on Thursday evening, and by Friday morning the centre of the system lay near Galway, where the barometer had fallen to about 28·95 in. It subsequently moved slowly Eastwards, at the same time undergoing great modification in form, and by the end of the period, when its centre lay over the neighbourhood of the Straits of Dover, it had become much deeper, the barometer having sunk to about 28·5 in. The increase of pressure in its rear was, however, very gradual, and the Northerly and North-Westerly wind only blew a gale in a few places.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 372.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate
	Rainfall ...	Heavy	Very heavy	Heavy	Very heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 11 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 5	2 * 3	4 * 1	4 * 1	4 * 2	4 * 2	2 * 4	2 * 3	4 * 2	2 * 3	2 * 4	4 * 2
	Rainfall ...	5 * 5	4 * 3	4 * 3	5 * 2	3 * 2	4 * 2	2 * 5	5 * 4	5 * 4	2 * 4	6 * 3	6 * 1
	Sunshine ...	4 * 2	5 * 2	5 * 3	6 * 2	4 * 2	7 * 2	2 * 3	5 * 3	4 * 3	3 * 2	2 * 3	2 * 4

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910-11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10165 / 450 Wy. & S., Ltd. 11—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	FORTY-SIXTH WEEK—November 12th to November 18th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	54	28	45·6	37·3	41·5	− 0·9	10	− 10	19	+ 3	6	+ 1	2·00	+0·77	6	− 2	10	− 4
Eastern																		
1. SCOTLAND, EAST	58	25	46·8	37·4	42·1	+ 0·5	20	+ 1	13	− 9	7	+ 3	2·34	+1·64	5	− 7	8	−13
2. ENGLAND, N.E.	57	30	50·5	40·8	45·7	+ 2·5	31	+ 8	3	−11	6	+ 2	0·95	+0·39	9	− 4	15	− 6
3. ENGLAND, EAST	60	34	52·9	43·0	48·0	+ 4·6	42	+ 16	0	−16	6	+ 2	1·53	+1·03	5	− 10	8	−16
4. MIDLAND COUNTIES	59	28	51·4	40·6	46·0	+ 3·3	34	+ 11	4	−15	6	+ 3	0·77	+0·22	8	− 4	14	− 7
5. ENGLAND, S.E.	57	29	53·4	44·0	48·7	+ 3·5	47	+ 14	0	−10	5	+ 1	1·63	+0·97	8	− 7	12	−11
Western																		
6. SCOTLAND, WEST	55	26	48·6	40·2	44·4	+ 0·6	24	− 1	5	− 7	6	+ 2	1·92	+0·70	10	− 1	17	− 2
7. ENGLAND, N.W.	59	27	50·3	41·8	46·1	+ 1·9	30	+ 4	1	− 9	7	+ 3	1·27	+0·47	7	− 4	12	− 7
8. ENGLAND, S.W.	57	27	52·4	43·7	48·1	+ 2·1	43	+ 7	0	− 8	7	+ 3	1·70	+0·76	14	− 1	22	− 2
9 IRELAND, NORTH	58	35	50·2	42·2	46·2	+ 2·2	29	+ 3	0	−12	7	+ 3	2·12	+1·19	14	0	23	0
10. IRELAND, SOUTH	58	35	51·3	43·3	47·3	+ 1·8	37	+ 2	0	−10	7	+ 3	2·54	+1·55	15	− 1	24	− 2
11. ENGLISH CHANNEL	58	43	54·3	47·1	50·7	+ 1·1	61	+ 7	0	− 1	7	+ 2	1·52	+0·63	18	+ 1	29	+ 1
	THE SEASON (Autumn).—Aggregates, &c., for the Period of 11 Weeks, September 3rd to November 18th, 1911.																	
0. SCOTLAND, NORTH	68	21	*	*	*	*	436	− 61	91	+20	50	− 5	12·35	−0·56	201	+ 7	24	+ 1
Eastern																		
1. SCOTLAND, EAST	77	15	*	*	*	*	491	− 37	117	+23	43	− 2	8·59	+1·36	252	+ 20	31	+ 3
2. ENGLAND, N.E.	89	25	*	*	*	*	659	+ 35	29	−18	44	+ 3	5·99	−0·28	299	+ 43	36	+ 5
3. ENGLAND, EAST	93	26	*	*	*	*	830	+117	16	−39	41	+ 1	6·96	+1·06	335	+ 47	40	+ 6
4. MIDLAND COUNTIES	94	25	*	*	*	*	710	+ 59	42	−27	43	+ 4	6·22	−0·11	295	+ 45	35	+ 5
5. ENGLAND, S.E.	91	25	*	*	*	*	875	+ 74	13	−22	41	+ 2	9·99	+2·73	362	+ 73	43	+ 9
Western																		
6. SCOTLAND, WEST	70	21	*	*	*	*	557	− 37	62	+12	42	− 4	11·20	−0·87	248	+ 15	30	+ 2
7. ENGLAND, N.W.	85	23	*	*	*	*	671	+ 2	19	−15	44	0	10·50	+1·59	282	+ 45	34	+ 5
8. ENGLAND, S.W.	91	20	*	*	*	*	838	+ 71	9	−17	48	+ 3	10·81	+0·76	315	+ 39	37	+ 5
9. IRELAND, NORTH	73	23	*	*	*	*	636	+ 13	35	− 6	45	− 5	9·27	+0·03	262	+ 30	31	+ 4
10. IRELAND, SOUTH	82	25	*	*	*	*	735	+ 15	20	−15	51	+ 6	11·92	+2·85	287	+ 17	34	+ 2
11. ENGLISH CHANNEL	89	37	*	*	*	*	1104	+113	0	− 1	49	0	11·79	+3·00	343	+ 4	40	0
	THE YEAR.—Aggregates, &c., for the Period of 46 Weeks, January 1st to November 18th, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	2192	+141	506	−122	194	−21	44·10	−0·22	1217	+138	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2450	+152	609	−105	168	−10	23·90	−2·90	1424	+140	35	+ 4
2. ENGLAND, N.E.	96	19	*	*	*	*	3023	+449	400	−122	147	−14	18·88	−2·85	1537	+147	38	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3516	+543	425	−151	144	−12	18·61	−2·20	1747	+232	43	+ 6
4. MIDLAND COUNTIES	98	14	*	*	*	*	3333	+446	457	−145	131	−23	16·53	−6·56	1528	+179	38	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3602	+382	374	− 42	129	−20	21·34	−2·03	1868	+335	46	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2769	+272	409	− 66	168	−18	35·81	−5·11	1486	+171	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3097	+361	333	− 87	150	−22	27·63	−2·49	1613	+279	39	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3444	+385	306	− 21	146	−24	27·84	−4·86	1753	+259	43	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	2827	+217	337	− 49	165	−37	27·06	−6·04	1455	+231	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3310	+304	315	+ 21	178	− 2	31·33	−2·22	1552	+174	38	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	3963	+386	135	+ 25	152	−30	26·12	−1·35	1952	+135	48	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	48	13th	24	16th	43·5	32·6	38·1	—	4	34	7	1·54	—	8·9	—	18	—	Baltasound.
	a Lerwick	49	18th	30	17th	45·0	37·7	41·4	− 1·6	8	18	6	1·23	—	9·0	− 0·3	17	− 1	Deerness.
	a Stornoway	53	14th	33	17th	46·0	38·1	42·1	− 1·2	17	11	7	2·09	+ 0·74	9·4	− 0·9	17	− 2	Stornoway.
	a Castlebay, Barra Isd.	53	14th	36	17th	48·1	42·6	45·4	+ 0·7	24	0	7	1·21	—	6·7	—	12	—	Castlebay.
	a Wick	51	14th	28	18th	46·6	37·0	41·8	− 0·7	13	21	5	1·61	+ 0·98	*	*	*	*	*
b, Mainland.	p Strathpeffer.. ..	51	15th	32	16th, 18th	44·4	36·2	40·3	− 1·3	7	22	7	1·37	+ 0·73	2·1	− 8·7	4	− 16	Strathpeffer.
	p Glencarron .. S	53	14th, 15th	29	16th, 17th	43·7	37·2	40·5	− 0·9	5	18	7	2·34	+ 0·24	*	*	*	*	*
	p Fort Augustus S	54	15th	31	18th	46·4	37·0	41·7	− 0·5	12	21	7	2·78	+ 1·79	1·5	− 4·0	3	− 7	Fort Augustus.
	p Fort William S	53	14th, 15th	31	18th	47·4	37·7	42·6	− 0·3	22	12	6	2·55	+ 0·67	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	55	15th	30	12th	46·4	36·2	41·3	− 1·3	12	23	7	3·17	+ 2·55	1·8	—	3	—	Gordon Castle.
	a Nairn	55	15th	25	12th	45·3	34·6	40·0	− 1·7	9	29	7	3·19	+ 2·72	1·4	—	3	—	Nairn.
	a Aberdeen	55	14th	36	17th	46·7	38·7	42·7	+ 0·1	19	9	7	2·16	+ 1·48	1·5	− 12·0	3	− 21	Aberdeen.
	a Balmoral .. S	46	15th, 18th	30	18th	44·0	36·1	40·1	+ 1·2	6	22	5	2·34	+ 1·47	1·3	—	2	—	Crathes S.
	p Crieff .. .. S	53	15th	33	18th	48·0	38·1	43·1	+ 1·2	24	11	7	2·28	+ 1·23	11·2	—	20	—	Balruddery.
	a Leith	58	14th	34	12th	50·1	40·6	45·4	+ 1·6	30	4	7	1·38	+ 0·93	*	*	*	*	*
	p West Linton.. S	53	14th	31	12th	46·0	36·6	41·3	+ 0·9	11	22	7	1·91	—	?6·2	—	? 11	—	West Linton.
	p Marchmont .. S	53	14th	33	12th	48·0	38·1	43·1	+ 1·8	24	11	7	2·26	+ 1·53	7·9	− 4·3	14	− 8	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	55	14th	31	12th	48·9	38·6	43·8	+ 0·8	27	10	6	1·10	+ 0·34	10·0	—	17	—	Cockle Park.
	a Shields	57	14th	35	12th	50·1	39·9	45·0	+ 1·3	30	6	7	1·34	+ 0·84	6·0	− 2·4	10	− 4	Newcastle.
	p Durham	56	14th	30	12th	49·4	39·0	44·2	+ 1·5	28	8	6	1·01	+ 0·45	8·1	− 4·9	14	− 8	Durham.
	p Rounton .. M	54	14th	32	12th	49·6	39·7	44·7	+ 2·2	29	6	7	1·10	+ 0·55	*	*	*	*	*
	p Scarborough.. M	53	13th, 14th	37	18th	50·6	41·6	46·1	+ 1·7	30	1	7	1·07	+ 0·49	10·8	—	18	—	Scarborough.
	p York	57	15th	35	12th	51·7	41·6	46·7	+ 3·3	35	1	7	0·81	+ 0·33	9·0	− 1·0	15	− 2	York.
b, South.	a Spurn Head	53	16th	40	12th	50·7	43·6	47·2	+ 2·2	36	0	4	1·00	+ 0·58	*	*	*	*	*
	a Lincoln	55	14th, 16th	34	12th	51·7	41·9	46·8	+ 3·8	34	0	7	0·62	+ 0·18	7·3	—	12	—	Skegness.
	a Fulbeck	55	16th	34	12th	51·7	41·6	46·7	+ 3·9	35	1	7	0·53	+ 0·08	9·0	—	15	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	57	16th	36	12th	52·8	41·9	47·4	+ 4·1	38	0	6	1·18	—	6·2	—	10	—	Lowestoft.
	p Hillington .. M	60	12th	38	14th	52·6	41·7	47·2	+ 4·2	38	1	6	2·23	+ 1·65	3·4	—	6	—	Cromer.
	a Yarmouth	57	12th, 16th	35	12th	53·0	42·7	47·9	+ 3·6	41	0	4	1·49	+ 0·95	5·1	− 8·2	9	− 14	Hillington.
	a Norwich	57	16th	35	12th	52·5	42·7	47·6	+ 4·3	39	0	5	1·45	—	5·6	—	9	—	Yarmouth.
	p Geldeston	59	12th	39	14th	53·6	43·8	48·7	+ 4·5	47	0	6	1·68	+ 1·15	*	*	*	*	*
	p Cambridge	58	16th	38	14th	53·5	43·0	48·3	+ 4·8	44	0	6	1·17	+ 0·72	5·3	− 10·0	9	− 16	Geldeston.
b, South.	a Felixstowe	56	16th	37	12th	52·3	43·7	48·0	+ 3·0	42	0	6	2·29	—	5·2	− 9·2	9	− 15	Cambridge.
	a Clacton-on-Sea ..	54	16th	36	12th	51·9	44·1	48·0	+ 3·0	42	0	6	1·88	—	9·7	—	16	—	Felixstowe.
	a Rothamsted ..	56	12th, 16th	34	12th	52·1	41·7	46·9	+ 3·9	36	1	6	1·27	+ 0·64	4·7	—	8	—	Clacton.
	a Shoeburyness ..	57	12th, 16th	40	12th	53·6	44·3	49·0	+ 3·7	49	0	6	1·85	+ 1·40	6·8	− 7·8	11	− 13	Rothamsted.
	p Tottenham	57	12th, 16th	41	14th, 18th	54·4	45·1	49·8	+ 5·2	55	0	5	1·43	—	6·7	—	11	—	Southend.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	54	14th	29	12th	49·2	39·3	44·3	+ 1·8	27	8	7	0·95	+ 0·30	3·1	—	5	—	Tottenham.
	a Bawtry	56	16th	31	12th	51·3	40·1	45·7	+ 2·7	34	5	5	0·50	+ 0·05	9·0	—	15	—	Harrogate.
	p Buxton .. M	51	14th	36	12th, 18th	47·2	40·7	44·0	+ 3·4	19	4	7	2·15	+ 1·03	3·9	− 7·4	7	− 12	Worksop.
	a Nottingham ..	55	14th, 16th	28	12th	52·1	40·4	46·3	+ 3·2	37	4	7	0·60	+ 0·17	4·0	—	7	—	Buxton.
	p Birmingham, Edgbsn	54	16th	38	18th	50·4	41·9	46·2	+ 3·0	30	0	6	0·65	+ 0·11	6·5	—	11	—	Nottingham.
	a Raunds .. M	58	16th	34	12th	52·5	41·1	46·8	+ 4·1	37	3	6	0·89	—	7·5	—	12	—	Birmingham.
b, West.	a Oxford	56	12th, 16th	33	12th	52·9	42·6	47·8	+ 3·8	41	0	4	0·94	+ 0·40	*	*	*	*	*
	a Cheadle .. M	52	14th, 16th	30	12th	49·6	38·7	44·2	+ 1·9	29	9	7	0·56	− 0·09	8·0	− 5·8	13	− 10	Oxford.
	p Shrewsbury	58	14th	35	12th	51·7	40·2	46·0	+ 2·0	36	5	5	0·47	—	9·4	—	16	—	Sheffield.
	a Hereford .. M	59	14th	31	12th	51·5	39·3	45·4	+ 1·9	35	8	5	0·65	+ 0·09	*	*	*	*	*
	a Cirencester	54	12th, 14th	32	12th	50·6	40·0	45·3	+ 2·8	32	6	5	1·09	+ 0·43	*	*	*	*	*
	a Bath	57	14th	30	12th	53·7	42·9	48·3	+ 3·8	44	0	5	1·19	+ 0·50	8·9	− 4·9	15	− 8	Cirencester.
5. ENGLAND, S.E... ..	p Kew	57	16th	40	14th	53·1	44·9	49·0	+ 4·9	49	0	5	1·58	+ 1·07	11·8	—	19	—	Bath.
	a Marlborough ..	55	14th	32	12th	52·1	40·8	46·5	+ 4·0	37	3	5	1·50	+ 0·76	7·6	—	12	—	Ramsgate.
	a Margate	57	12th, 16th	40	14th	54·8	44·8	49·8	+ 4·2	55	0	6	1·02	+ 0·47	5·1	− 7·1	8	− 12	Kew.
	a Wisley, Surrey ..	57	16th	35	12th	53·1	43·8	48·5	+ 3·7	46	0	5	1·42	—	7·7	− 10·3	13	− 17	Marlborough.
	a Swarraton .. M	56	16th	29	12th	51·9	40·8	46·4	+ 3·1	36	3	5	1·55	+ 0·79	7·2	− 7·8	12	− 13	Margate.
	a Tunbridge Wells M	54	12, 14, 16th	35	12th	51·6	41·5	46·6	+ 2·6	34	1	6	2·67	+ 1·89	6·6	—	11	—	Wisley.
	a Dungeness	57	12th	35	12th	54·9	46·0	50·5	+ 4·1	60	0	5	1·30	+ 0·72	5·9	− 10·4	10	− 17	Tunbridge Wells.
	p Hastings	57	12th	40	18th	54·3	46·2	50·3	+ 4·3	58	0	5	1·23	+ 0·50	6·8	—	11	—	Littlestone.
	p Southampton ..	56	12th, 16th	33	14th	54·1	43·8	49·0	+ 3·0	49	0	5	1·60	+ 0·85	8·4	− 8·9	14	− 14	Hastings.
	a Ventnor	56	12, 14, 15, 16	44	12th	54·2	47·1	50·7	+ 2·7	61	0	5	2·42	+ 1·69	7·7	− 7·5	12	− 12	Southampton.
LONDON .. — ..	a Westminster ..	58	16th	37	12th	54·1	45·0	49·6	+ 5·1	53	0	5	1·17	+ 0·64	10·8	− 5·9	17	− 10	Ventnor.
	a Greenwich	58	16th	38	14th	54·0	43·4	48·7	+ 4·2	47	0	6	1·41	+ 0·88	8·8	− 7·2	14	− 12	Eastbourne.
6. — a, SCOTLAND. W. ..	a Poltalloch .. S	55	14th	29	12th	48·7	40·3	44·5	+ 0·9	25	5	7	2·11	+ 0·85	3·6	− 3·2	6	− 5	Westminster.
	p Glasgow	55	14th	35	18th	48·4	40·2	44·3	+ 1·3	24	5	6	1·44	+ 0·59	7·1	− 4·2	12	− 7	Greenwich.
	p Rothesay .. S	55	14th	37	18th	49·0	41·6	45·3	+ 1·3	25	1	6	2·05	+ 0·90	*	*	*	*	*
	a Kilmarnock	55	14th	26	12th	48·0	39·1	43·6	+ 0·9	23	8	6	1·47	—	5·9	− 0·9	10	− 2	Glasgow.
	a Colmonell .. S	55	14th	34	12th	48·5	40·6	44·6	+ 1·9	24	4	7	1·71	+ 0·47	*	*	*	*	*
	p Dumfries .. S	53	14th, 15th	33	12th	48·9	40·8	44·9	+ 1·9	25	3	6	1·84	+ 0·94	6·5	—	11	—	Kilmarnock.
	p Cally, Gatehouse S	52	14th	32	18th	48·1	37·3	42·7	− 0·3	25	13	5	2·48	+ 1·21	7·6	—	13	—	Dumfries.
b, ISLE OF MAN ..	p Douglas	53	14th	37	18th	49·2	41·9	45·6	+ 0·1	26	0	7	2·23	+ 1·13	*	*	*	*	*
7. — a, ENGLAND, N.W...	p Aspatria	53	14th	33	12th, 18th	49·0	39·4	44·2	+ 1·4	26	7	7	1·76	+ 0·78	13·8	− 0·8	23	− 1	Douglas.
	p Newton Rigg ..	55	14th	27	12th	47·7	39·5	43·6	+ 2·2	22	7	7	1·63	+ 0·78	7·2	—	12	—	Hoylake.
	p Stonyhurst	53	14th, 16th	36	12th, 18th	49·5	40·8	45·2	+ 2·2	27	3	7	1·38	+ 0·33	11·1	—	19	—	Aspatria.
	p Blackpool .. M	54	14th, 15th	34	12th	50·1	41·5	45·8	+ 1·3	29	1	7	1·27	+ 0·43	3·3	− 7·8	6	− 13	Stonyhurst.
	p M'nch'ster, Prestwich	57	14th	35	18th	50·3	41·1	45·7	+ 2·3	30	3	7	1·24	+ 0·47	5·9	− 5·6	10	− 9	Blackpool.
	a Liverpool (Bidston)	56	14th	31	12th	50·4	40·7	45·6	+ 1·9	31	4	6	0·51	− 0·11	2·7	− 5·0	5	− 8	Prestwich.
	a Hawarden Bridge ..	59	14th	29	12th	52·4	41·9	47·2	+ 1·8	37	0	6	0·38	− 0·17	6·5	—	11	—	Liverpool.
b, NORTH WALES ..	p Llandudno .. M	58	14th	43	12th, 18th	52·4	46·8	49·6	+ 3·0	53	0	7	1·08	+ 0·36	6·1	− 5·4	10	− 8	Southport.
	a Holyhead	55	14th	39	12th	50·9	44·9	47·9	+ 0·9	41	0	7	2·22	+ 1·25	7·4	—	12	—	Rhyl.
	p Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	9·0	—	15	—	Llandudno.
8. — a, SOUTH WALES ..	a Llangammarch Wells	53	14th, 16th	27	12th	50·2	38·6	44·4	+ 1·8	31	10	7	3·20	—	—	—	—	—	Aberdovey.
	a Pembroke	57	16th	43	18th	53·7	?46·1	?49·9	+ 1·9	55	0	7	2·01	+ 1·11	10·1	—	17	—	Bettws-y-Coed.
	p Cardiff	55	16th	36	18th	51·7	43·1	47·4	+ 2·9	38	9	7	2·02	+ 1·06	8·1	—	13	—	Aberystwyth.
b, ENGLAND, S.W. ..	a Clifton	55	12, 14, 15, 16	35	12th	53·1	43·8	48·5	+ 3·5	46	0	6	1·35	+ 0·59	13·5	− 1·5	22	− 3	Llangammarch Wells.
	a Shaftesbury .. M	54	15th	37	12th	50·4	41·0	45·7	+ 1·7	30	3	5	0·91	+ 0·08	10·3	—	17	—	Cardiff.
	a Arlington	54	14th	36	18th	51·0	41·9	46·5	+ 1·8	32	0	7	1·93	+ 0·59	9·8	− 5·7	16	− 9	Tenby.
	a Cullompton .. M	56	15th	33	12th	53·3	42·3	47·8	+ 2·8	41	0	7	1·04	+ 0·19	11·6	—	19	—	Clifton.
	a Portland Bill ..	56	15th	44	12th	54·3	47·9	51·1	+ 3·2	64	0	5	1·30	—	*	*	*	*	*
	p Plymouth	56	15th	42	18th	54·1	46·6	50·4	+ 2·9	59	0	7	1·49	+ 0·63	16·4	− 1·7	27	− 3	Newquay.
	p Falmouth	55	14th	42	18th	52·3	45·6	49·0	+ 0·5	49	0	7	1·71	+ 0·57	16·4	+ 0·6	27	+ 1	Cullompton.
															20·4	+ 2·4	33	+ 4	Plymouth.
															18·6	—	30	—	Falmouth.
															20·7	+ 5·1	33	+ 8	Salcombe.
															*	*	*	*	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	55	14th	36	12th	49·6	42·4	46·0	+ 0·5	28	0	7	0·98	+ 0·23	*	*	*	*	*
	a Blacksod Point ..	55	14th	40	12th, 18th	50·3	43·6	47·0	+ 0·4	35	0	7	3·67	+ 2·44	*	*	*	*	*
	p Markree Castle ..	57	14th	38	18th	50·1	39·9	45·0	+ 1·2	30	6	7	2·85	+ 1·86	13·0	− 0·3	22	− 1	Markree Castle.
	a Birr Castle	57	14th	35	18th	50·7	41·9	46·3	+ 2·8	31	0	7	1·88	+ 1·12	15·3	+ 0·3	26	+ 1	Birr Castle.
b, East.	p Armagh	56	14th	35	18th	49·4	41·3	45·4	+ 1·7	27	2	7	1·32	+ 0·62	13·9	+ 0·2	24	0	Armagh.
	a Donaghadee	58	13th	40	14th, 18th	51·3	44·0	47·7	+ 2·5	40	0	7	2·02	+ 1·27	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	58	14th	39	18th	51·1	43·1	47·1	+ 1·1	36	0	7	1·34	+ 0·68	13·0	− 3·8	22	− 6	Phœnix Park.
	a Kilkenny	56	14th	39	14th, 18th	50·9	42·4	46·7	+ 2·7	33	0	7	2·57	+ 1·82	*	*	*	*	*
	a Waterford	55	14th	39	18th	52·7	45·3	49·0	+ 3·5	49	0	7	2·12	+ 1·20	*	*	*	*	*
	a Birr Castle	57	14th	35	18th	50·7	41·9	46·3	+ 2·8	31	0	7	1·88	+ 1·12	15·3	+ 0·3	26	+ 1	Birr Castle.
b, West.	a Foynes	58	14th	36	12th	51·7	42·1	46·9	+ 1·4	34	0	7	?0·34	?− 0·62	*	*	*	*	*
	a Cahir .. .. M	54	13th, 14th	37	17th	50·2	41·9	46·1	+ 0·8	29	0	7	2·58	—	*	*	*	*	*
	a Killarney	56	14th	35	18th	51·5	43·2	47·4	+ 1·4	38	0	7	3·37	+ 1·99	*	*	*	*	*
	a Valencia	57	13th	39	18th	52·3	44·3	48·3	+ 0·3	44	0	7	3·90	+ 2·56	15·5	− 0·3	25	− 1	Valencia.
	a Roche's Point ..	53	14th, 15th	41	18th	50·6	45·1	47·9	+ 0·3	41	0	7	2·59	+ 1·54	—	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	55	14th, 15th	43	13th	53·1	47·1	50·1	− 0·1	57	0	7	0·88	+ 0·07	13·8	− 4·5	22	− 7	Scilly.
	a Jersey, St. Aubins ..	58	12th, 15th	44	13th	55·7	47·7	51·7	+ 2·6	68	0	6	1·42	+ 0·51	21·7	+ 3·1	34	+ 5	St. Hellers.
	a Guernsey	57	15th	44	13th	54·0	46·6	50·3	+ 0·8	58	0	7	2·25	+ 1·20	19·0	+ 3·9	30	+ 6	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	40·4	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	45·5
	Crathes	1	26	41·8	45·1
	Balmoral	2	28	—	—
	Marchmont ..	1	27	41·3	—
2.	Cockle Park	2	28	41·6	44·6
	Durham	2	26	—	—
	York	—	—	45·2	49·1
	Hull	2	29	44·1	48·9
	Lincoln	—	—	43·5	48·6
	Rauceby	1	28	45·6	50·2
3.	Norwich	2	28	—	—
	Yarmouth	—	—	44·6	49·9
	Lowestoft	0	35	45·3	49·9
	Cambridge	0	33	45·7	50·1
	Clacton-on-Sea ..	—	—	48·2	51·6
	Southend	1	30	48·1	—
	Tottenham	0	35	—	51·6
4.	Harrogate	2	26	43·6	46·1
	Huddersfield ..	2	28	42·2	48·0
	Buxton	2	28	42·2	48·7
	Sheffield	1	29	44·1	48·5
	Nottingham.. ..	1	28	44·0	48·0
	Birmingham.. ..	0	34	45·3	49·4
	Oxford	0	—	—	—
	Hereford	2	29	—	—
	Cirencester	0	31	45·9	49·4
	Bath	—	—	47·0	50·6
5.	Margate	0	33	47·3	50·1
	Greenwich	1	29	—	—
	Westminster ..	0	32	—	—
	Kew	0	31	45·9	50·7
	Canterbury	1	28	47·6	48·3
	Tunbridge Wells ..	1	27	46·1	—
	Wisley	2	27	46·6	50·2
	Worthing	1	29	48·5	52·2
	Portsmouth	1	30	48·3	52·1
6.	Glasgow	3	30	—	—
	Rothesay	—	—	—	46·7
	Colmonell	0	32	—	—
6.	Dumfries	1	26	42·9	46·9
	Douglas	0	35	—	—
7.	Aspatria	1	28	43·3	47·9
	Newton Rigg ..	2	23	43·8	47·0
	Burnley	1	24	42·9	47·5
	Southport	0	33	43·5	47·1
	Manchester City ..	0	35	44·3	49·4
	Bettws-y-Coed ..	—	—	—	—
8.	Llangammarch Wells	4	20	45·8	50·4
	Cardiff	0	31	45·9	50·1
	Clifton	0	31	—	—
	Plymouth	0	36	49·2	—
9.	Armagh	1	30	44·6	48·2
	Markree	0	35	46·5	50·1
10.	Dublin, Trin. Coll. ..	1	30	46·1	48·2
11.	Guernsey, Brooklyn	0	36	50·3	53·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	49	47	47·6
	Kirkwall	41	40	41·0
	Wick	50	48	49·0
SCOTLAND E.	Cromarty	46	44	44·8
	Pennan Bay	47	46	46·4
	Aberdeen, Cove Bay ..	47	47	47·0
ENGLAND, N.E.	Burnmouth, Berwick ..	46	45	45·2
	Scarborough	47	43	45·3
ENGLAND, E.	Shipwash Lightship ..	54	50	50·9
	Margate‡	51	50	50·7
ENGLAND, S.E.	Eastbourne‡	51	50	50·9
SCOTLAND, W.	Lamlash	46	46	46·0
	Ballantrae	46	42	43·5
ENGLAND, N.W.	Port Erin	52	50	50·9
ENGLAND, S.W.	Newquay	53	52	52·9
	Scilly	52	51	52·0
	Plymouth‡	51	50	50·3
	Salcombe	53	51	52·0
IRELAND, N.W.	Sheephaven	48	47	47·1
	Teelin	50	45	47·6
IRELAND, S.W.	Cleggan	49	43	46·5
	Seafield	52	49	49·8
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

ABERDEEN, NOVEMBER 17th, 1911.

Station A. King's College Tower. 35·35 m. above sea level.
B. Near Woodside, 920 m. from A, and 2·7 m. below A.
B lying W 15° 10′ N from A.

FIRST FLIGHT. Lifting power of Balloon 53 grms.					SECOND FLIGHT. Lifting power 51 grms.				
Time of observation.	Height above sea level.	Horizontal distance travelled in 1 min.	Mean velocity.	Mean direction of wind.	Time of observation.	Height above sea level.	Horizontal distance travelled in 1 min.	Mean velocity.	Mean direction of wind.
	metres.	metres.	in m.p.s.			metres.	metres.	in m.p.s.	
11 15	35·4	328	5·5	21°	11 35	35·4	393	6·6	3°
11 16	181	463	7·7	34°	11 36	171	497	8·3	34°
11 17	322	523	8·7	46°	11 37	336	496	8·3	39°
11 18	457	523	8·7	50°	11 38	504	480	8·0	47°
11 19	607	500	8·3	61°	11 39	650	550	9·2	47°
11 20	740				11 40	834			

After 5 minutes the Balloon was lost at both stations in both flights—must have entered the cloud.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

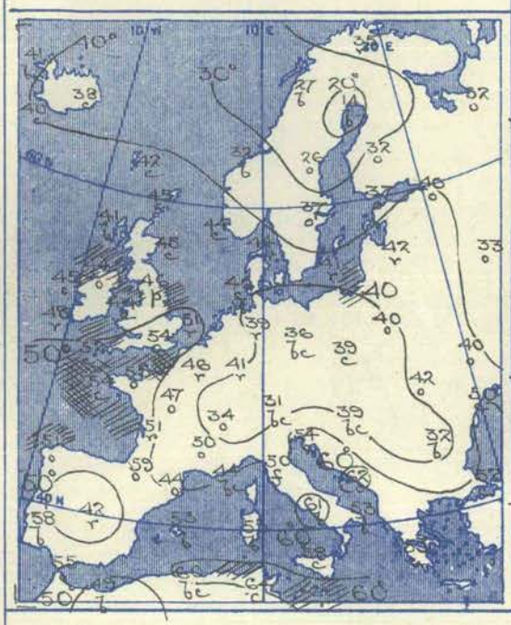
The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

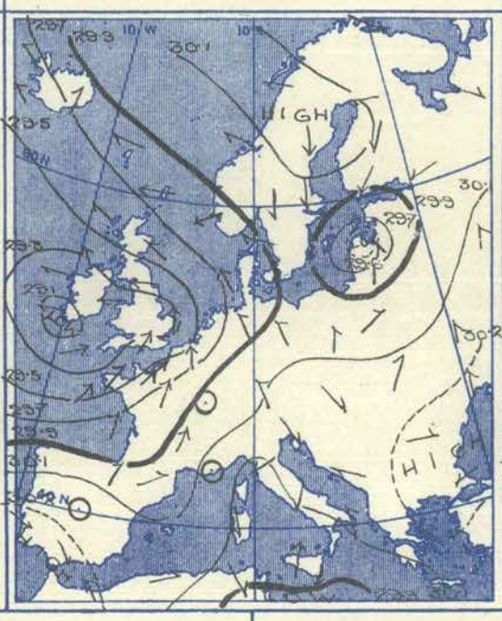
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 12th November, 1911.

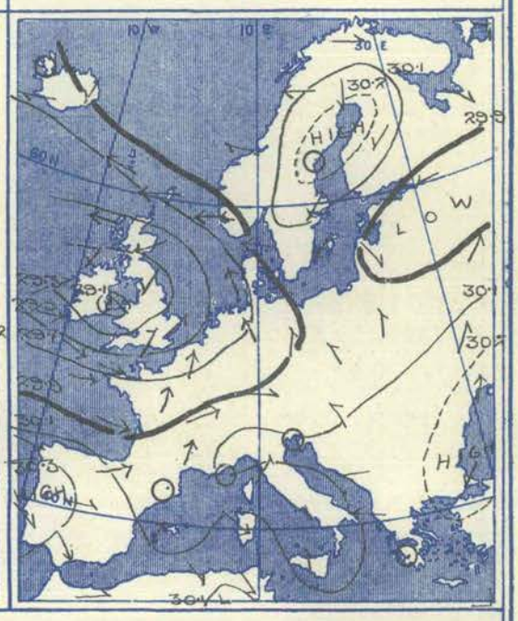
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning rough and unsettled over the United Kingdom and western and northern Europe generally, with rain at many stations. Cloudy or overcast in most other regions and rainy at Malta, but bright in Italy, Algeria and the east of Spain. Rain falling later in nearly all parts of our area except Austria, Italy, and the south-east of Europe, and some snow in Russia. More than 0·7 in. at Birr Castle, about 0·5 in. in Wales and at several places on the Continent, 0·95 in. at Charleville (France), and 1·1 in. at Malta.

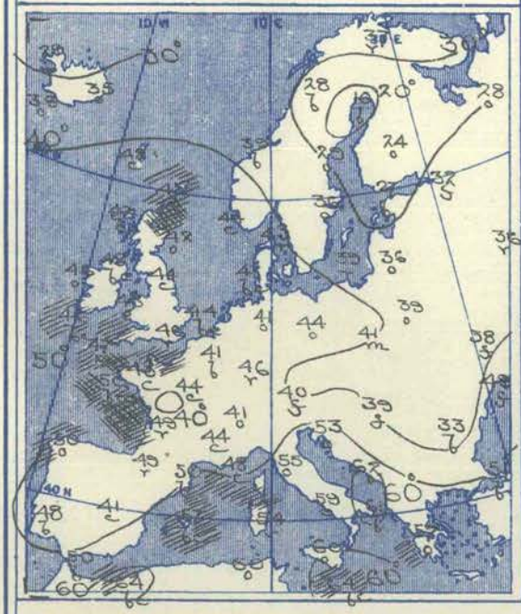
Temperature risen over these Islands and the western countries of the Continent, fallen generally elsewhere. Morning readings 55° in the south-east and south of England, but below 40° in central Scotland and over the major portion of the Continent, and as low as 14° in the north of Sweden. Readings ranging from 49° to 64° on the shores of the Mediterranean. Rising to above 55° during day at many English and French stations, and to about 70° at a few in the far south of our area. Maxima below 50° over a large area in central Europe and also at Turin. Frost continuing throughout in the north of Sweden.

Wind in morning showing several complete or partial cyclonic circulations, the most important being over these Islands and their neighbourhood. A gale from the South-Westward on the Channel and a high wind from East at Spurn Head and Donaghadee, and force fresh to strong over the United Kingdom and France generally. Gales experienced later on most parts of the British coasts, from East in the north of Scotland. Squalls of force "11" from West North-West at Scilly. An Easterly gale continuing all day in the south of Norway.

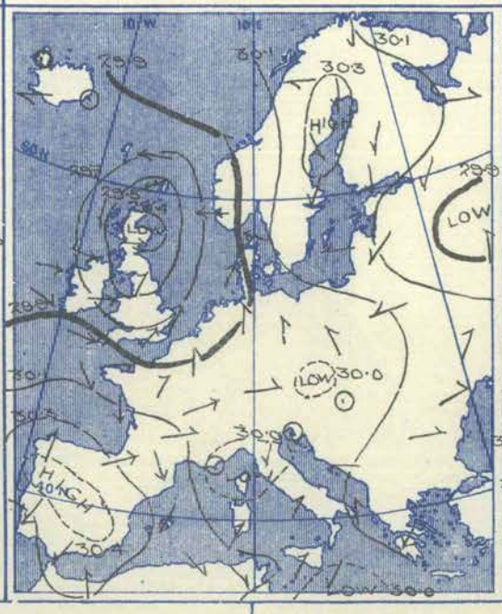
Barometer in morning below 29·1 in. in a depression having its centre near Valencia; nearly as low in a secondary centred over the Wash, below 29·6 in. in another disturbance near Riga, and below 29·8 in. in the neighbourhood of Sfax, above 30·2 in. in the south-west and south-east of our area, and above 30·1 in. in the north of Scandinavia. Depressions travelling in a North-Easterly direction during day, and gradient growing steeper over these Islands, the North Sea and Denmark.

Monday, 13th November, 1911.

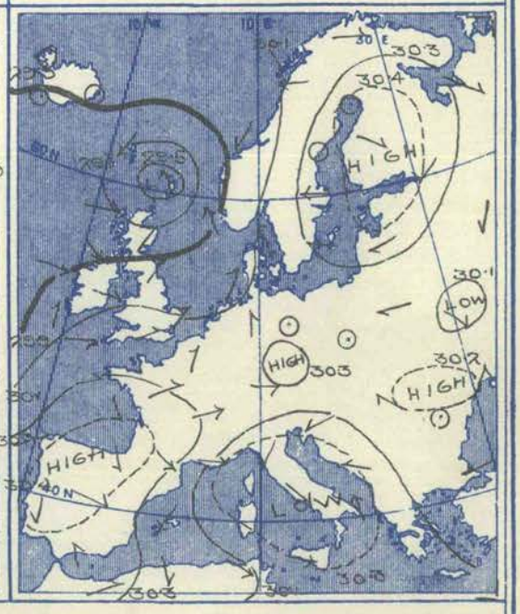
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning unsettled and very rough throughout the United Kingdom and the surrounding regions, and rainy or showery in many localities. Generally cloudy or overcast in other parts of our area, with rain at several isolated stations, and snow at St. Petersburg. Rain experienced later over a considerable portion of our area; moderate or slight in amount as a rule, but measurements varying from 0·6 in. to 0·9 in. in the west of Ireland, 0·5 in. to 1·1 in. over the greater part of Italy, and 1·1 in. at Algiers.

Temperature risen over central Europe and Italy, fallen in most other regions. Morning readings ranging from a little above 60° at some places in the extreme south to about 45° in these Islands, below 40° at most places in the eastern half of Europe, and to below 32° in Finland and the northern parts of Sweden and Russia. Remaining below 50° all day in the east of France and at Turin and Prague; exceeding 60° very generally in the extreme south of our area, and touching 73° at Malta. Maxima about 50° in Great Britain, the Netherlands, and the north of France.

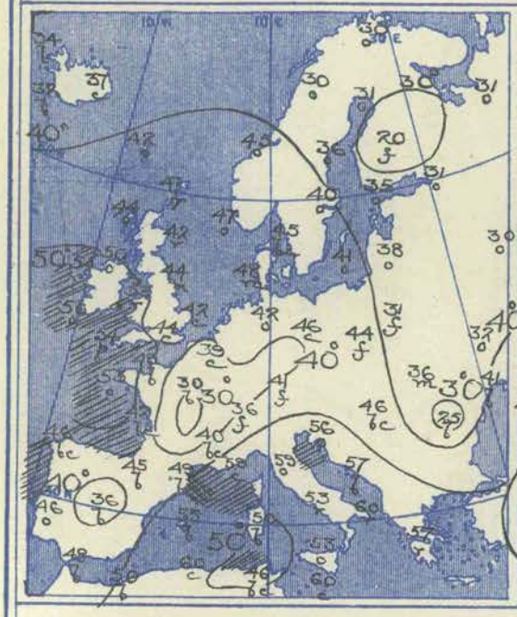
Wind in morning cyclonic except in the north and south-west of our area. Westerly to South-Westerly current strong to a gale over Ireland, England and the Channel, and that from East blowing a gale in the south-west of Norway and in Shetland. A strong breeze from various points prevailing over the western portion of the Mediterranean, and a gale from South in the Azores. Force decreasing later over these Islands, but gale continuing in the south-west of Norway. A considerable increase in force taking place on some shores of the Mediterranean. Backing to the Southward again on the south-west coast of Ireland.

Barometer in morning below 29·3 in. in a well-marked depression centred off the north-east of Scotland; below 30·0 in. in a shallow system over Corsica and the surrounding regions, and below 29·9 in. in central Russia. Above 30·3 in. over the Spanish Peninsula and also over the Gulf of Bothnia. Main depression moving northward later in day, but not much modification occurring in the general distribution of pressure. A very large and deep disturbance far out on the Atlantic beginning to affect the barometer in the west of Ireland.

Tuesday, 14th November, 1911.

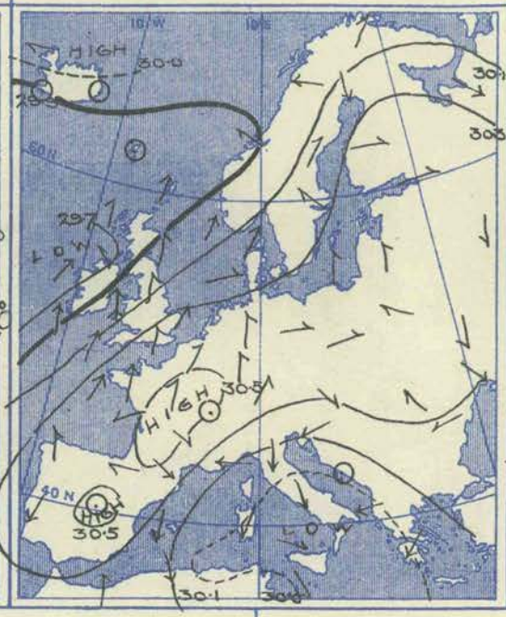
Temperature and Weather.

7 a.m.

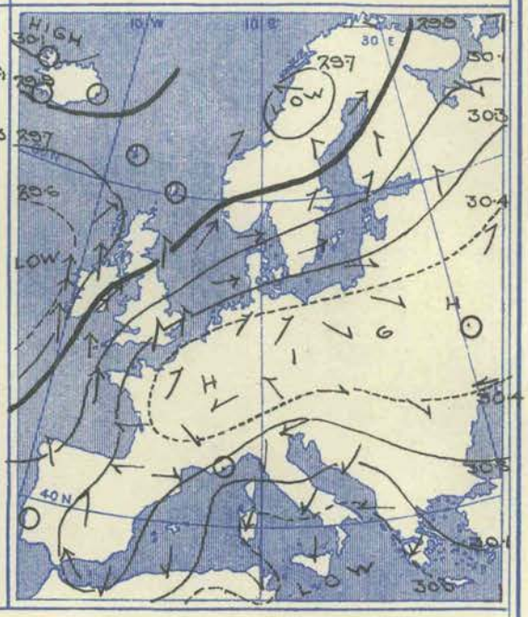


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy or showery in the western and northern districts of the United Kingdom; very cloudy or overcast in nearly all other regions except France and Spain, with rain at Athens and Naples, and snow at Sétif (Algeria). Fog prevailing over a wide area in central Europe. More than 1·25 in. of rain later in the west and south of Ireland, and smaller quantities in several other parts of these Islands and Scandinavia. As much as 0·5 in. at Athens, 1·0 in. at Malta, and 1·3 in. of snow and rain at Sétif.

Temperature risen in the United Kingdom, Holland, Denmark, and Scandinavia, fallen over France and the Peninsula. Readings in morning about 55° at some of our own south-western and western stations, and at many places in southern Europe, and 60° at Malta and Algiers. Only 36° at Madrid, below 32° in the more central departments of France and in many districts in the north and east of Europe. Maxima during day as high as 57° or 58° in several parts of the United Kingdom and France, but below 50° in the east of France and at various places in central Europe. Thermometer rising above 65° on the Riviera, to 70° at Patras, and to 71° at Malta.

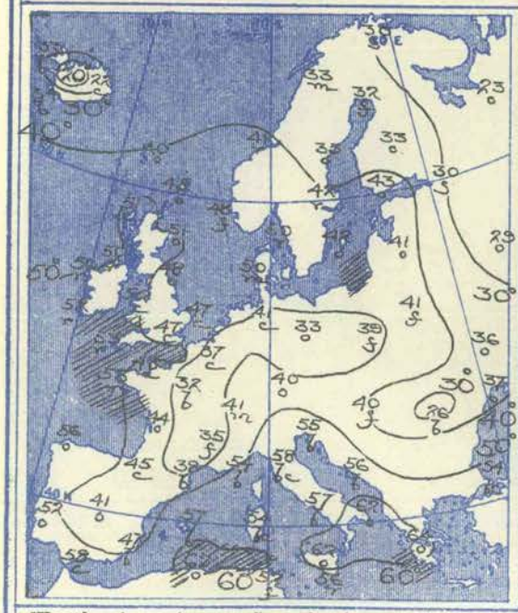
Wind in morning cyclonic over all the north-western countries and also over the Mediterranean, anticyclonic over the intervening region. Southerly current, fresh to a gale on our western coasts, and fresh to strong in Shetland and the south of Norway. A high wind from East North-East prevailing at Trieste. No change of importance during day; increasing in force on some parts of our west coast, and blowing a strong gale at Roche's Point during night.

Barometer in morning above 30·4 in. in a band extending from Portugal to the north of Russia; below 30·0 in. in a depression covering Sicily and the southern half of Italy, and below 29·7 in. in another off the west of Ireland, and nearly as low off the north of Scotland. Pressure giving way decidedly later in Scandinavia, and slowly in the west and north of the United Kingdom.

Wednesday, 15th November, 1911.

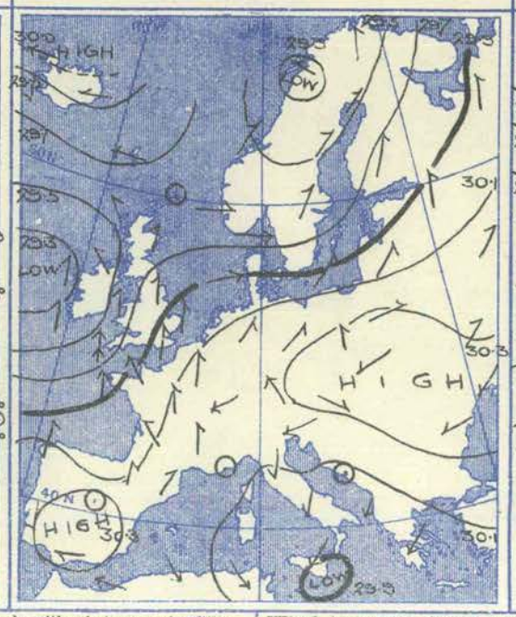
Temperature and Weather.

7 a.m.

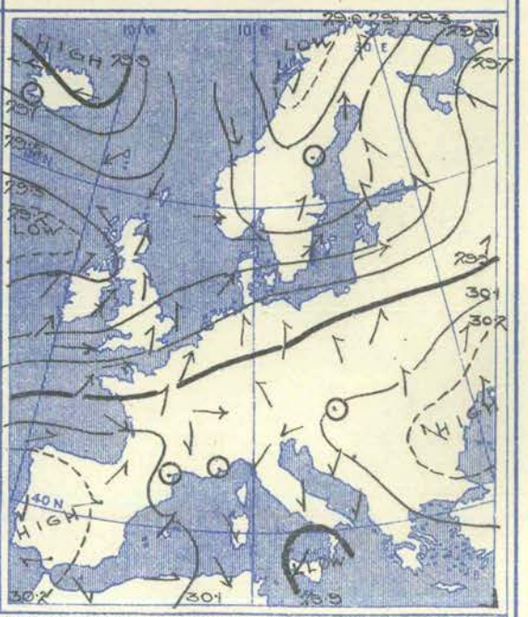


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally rough and overcast in these Islands, with rain in many localities, mostly in the west; cloudy to overcast in the northern and central countries of the Continent, with rain in Denmark and the adjacent portion of Scandinavia, and snow at St. Petersburg and Vardö. Fair or fine over the greater portion of the Mediterranean region, but rain falling at Malta and also at Sétif. Rain experienced in all parts of the United Kingdom later, and over a considerable area in northern Europe, as well as at Brindisi and Palermo. Between 0·6 in. and 0·9 in. in the east and north-east of Scotland, 1·1 in. at Skudesnaes, and 1·2 in. at Karlstad.

Temperature changed rather irregularly; risen in these Islands. Morning readings ranging from 64° at Patras and about 60° at many other southern stations to about 50° in most parts of these Islands to 32° at Paris, 26° at Hermanstadt, and 23° at Archangel. Rising to 55° at several stations in Great Britain during day, but remaining below 50° in central Europe Maxima above 65° at various places in the south of our area, and 72° at Cagliari. Thermometer only touching 55° at Madrid, and 60° at Malta.

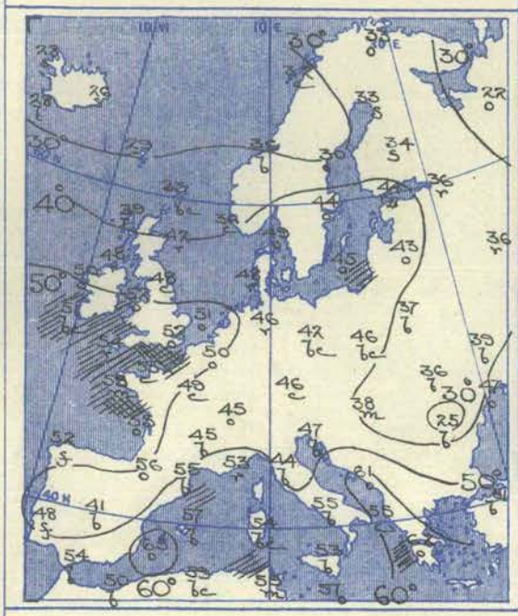
Wind in morning showing cyclonic circulations of considerable strength over the northern and north-western countries, and also over the Mediterranean. Southerly current blowing a gale at Scilly and Holyhead, and a fresh to strong breeze over England and Ireland generally. Westerly to South-Westerly current strong over the Baltic. A fresh to strong breeze from the North-Eastward prevailing in Greece and at Trieste, and from the North-Westward at Cape de Garde and Cagliari. A gale from the South-Westward experienced later in day or at night on several parts of our western and southern coasts and also on the Baltic.

Barometer in morning above 30·2 in. over central Europe and a large portion of Russia, and also in the south-west of our area. Below 29·3 in. in a depression centred near Bodö, and below 28·9 in. in a large system far to the westward of Ireland; below 29·9 in. in a disturbance having its minimum near Malta. No change of importance in the general distribution of pressure later in day; some secondaries appearing over these Islands. Barometer falling somewhat within the regions of highest pressure.

Thursday, 16th November, 1911.

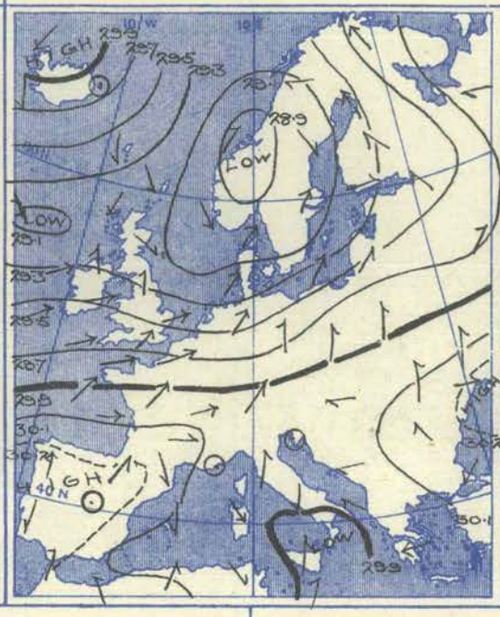
Temperature and Weather.

7 a.m.

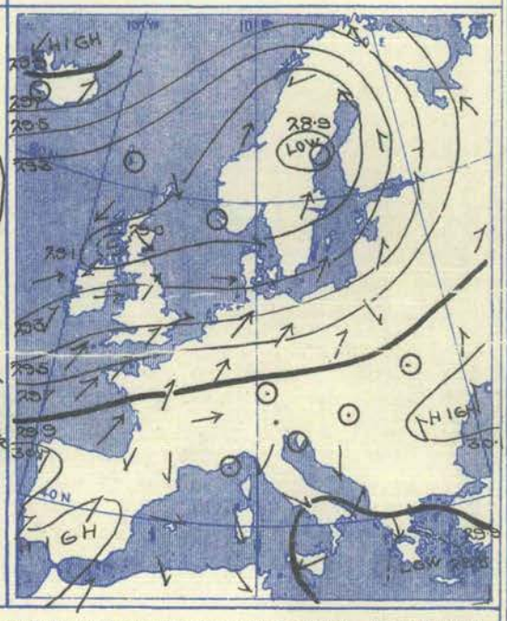


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning unsettled and rough over the greater portion of these Islands and the adjacent part of the Continent, with rain or showers in several localities. Rain or snow falling over a wide area in the north and north-east of Europe. Mostly fair to bright over the central and southern regions, but rainy at Nice. Snow and sleet falling in the north of Scotland later, measurement as much as 1·6 in. at Nairn, and rain over the United Kingdom generally. Heavy rain experienced in the north of France and considerable amounts in the Netherlands and Scandinavia. About 0·5 in. of rain at Lisbon and Athens, and 1·3 in. at Patras.

Temperature risen in England, France, and western Germany, fallen in Scotland and Norway, changed little or irregularly elsewhere. Morning readings above 60° at some stations in the far south, and above 50° over nearly the whole of England; below 40° in the north-east of Scotland and over large tracts in northern and eastern Europe, and as low as 23° at Archangel. Maxima during day below 40° in the north-east of Scotland, but above 55° in many English localities; above 60° at many places in the south of Europe, and nearly 70° at a few stations.

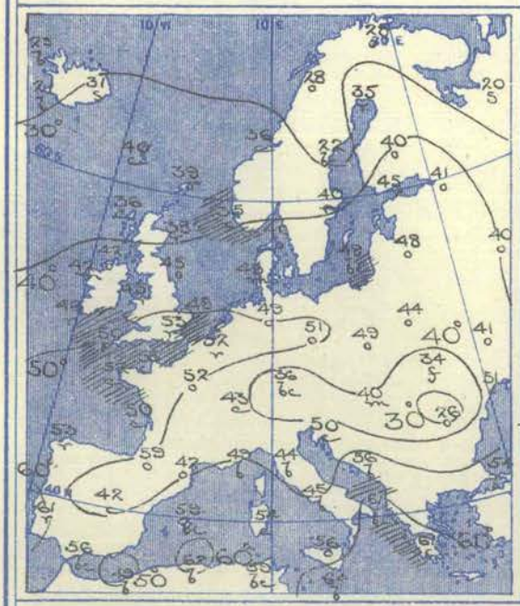
Wind in morning cyclonic except in the south-east and south-west of our area; South-Westerly current fresh to strong or high over Ireland, England, the Channel, the North Sea, and the adjacent countries; a strong South-East breeze prevailing at Haparanda, and a high wind from North-East in the north-west of Iceland; little force elsewhere. Wind increasing to a gale later on various parts of our western and southern coasts, but no general change occurring either in direction or force.

Barometer in morning below 28·9 in. in a large depression having its minimum over Norway and below 30·0 in. in a shallow system over southern Italy and its vicinity; above 30·2 in. over the Black Sea and also over the Spanish Peninsula, and relatively high in Iceland. A small secondary in the west of Scotland increasing in intensity during day and moving slowly eastward, and another disturbance beginning to affect the barometer on our western coasts. Little change in the general distribution.

Friday, 17th November, 1911.

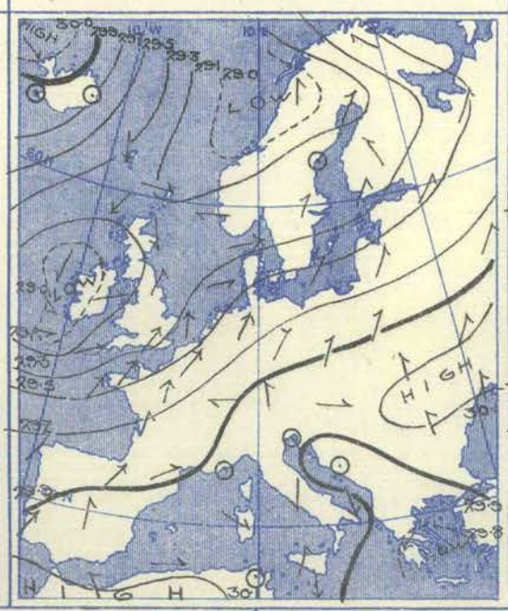
Temperature and Weather.

7 a.m.

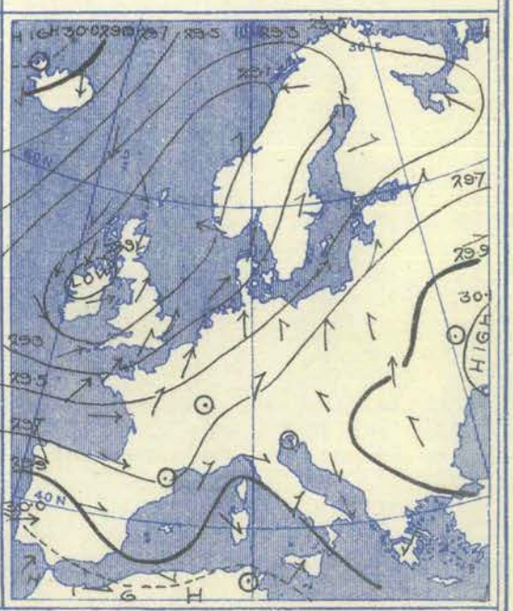


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning generally unsettled over the United Kingdom and the western and northern regions of the Continent, with rain at many places and snow at Archangel. Overcast, but dry, in central Europe; fair to bright in the southern countries. Rain experienced later over the western and northern countries and also in Switzerland; about 0·7 in. at Clacton and Portland Bill, 1·1 in. at Cape Gris Nez and Gap, and 1·6 in. at Nice.

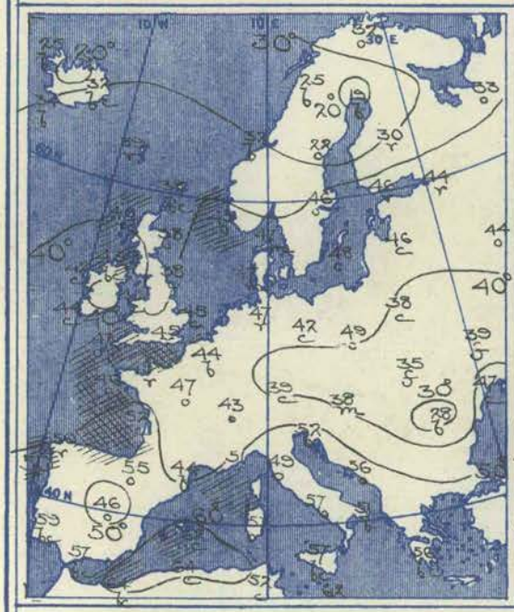
Temperature fallen over the major portion of our area. Morning readings ranging from 20° at Archangel, 22° at Hernösand, 26° at Hermanstadt, and 32° at Wick to above 50° in the south of England and on many shores of the Mediterranean, and to 64° at Malta. Maxima during day about 40° in the east of Scotland, but above 50° at most English stations, as well as in the Netherlands, central Europe, and France. Above 65° at several places in the extreme south, and as high as 72° at Malaga and Algiers. Frost at night in the north-east of Scotland.

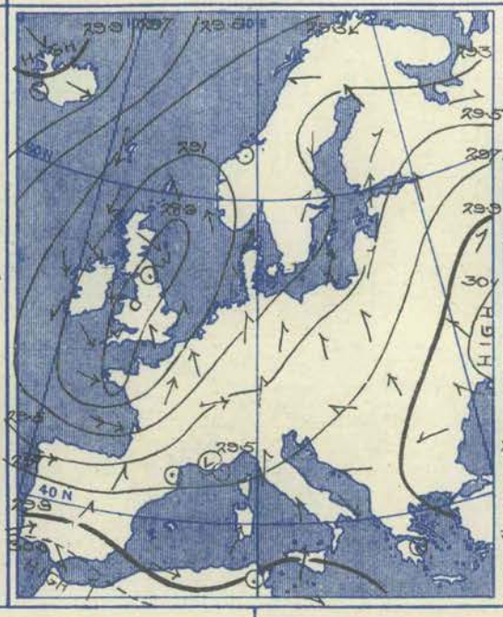
Wind in morning cyclonic very generally. South-Westerly current strong to a gale on the English Channel and moderate to strong on the Baltic, but no great force over our area as a whole. A fresh Northerly breeze prevailing at Malta and a strong breeze from that quarter at Brindisi. No important change occurring during day; gale continuing on exposed parts of our south coast.

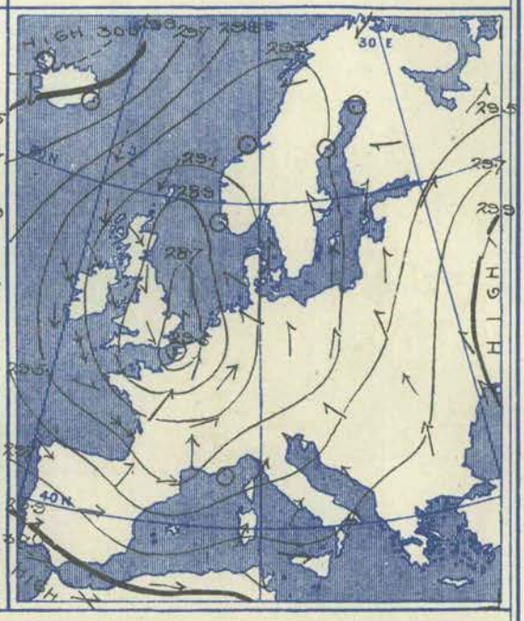
Barometer in morning above 30·1 in. in the south of Russia; below 29·0 in. in a depression over the west of Ireland and in another over Norway. Relatively low in Greece. Little modification taking place in the general distribution of pressure during day. Irish depression maintaining its intensity and moving slightly eastward, and that over Norway beginning to disperse.

Saturday, 18th November, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fine in the south of Spain and in a few districts elsewhere, but generally very cloudy or overcast, with rain in places both in these Islands and on the Continent. Rain experienced later in nearly all parts of our area; about 0·9 in. in East Anglia, 0·7 in. in the north-east of England, 0·5 in. in London, about 1·0 in. at Nancy, and 1·3 in. at Lugano. Considerable quantities in many other regions.

Temperature fallen in most regions; morning readings ranging from 64° at Nemours and Algiers and 62° at Malta to below 40° at many of our own stations and very generally in eastern and northern Europe, to 28° at Hermanstadt and to 22° at Hernösand. Maxima during day below 45° in several parts of the United Kingdom, about 50° over large tracts in France and central Europe, and 60° or above at various stations in the south of our area. Thermometer touching 68° at Cagliari and 70° at Algiers.

Wind in morning cyclonic over these Islands and the greater part of the Continent. A fresh to high Northerly current blowing over our own western districts, a Westerly gale on the Bay of Biscay, and a strong breeze from South on the Baltic. A strong wind from the South-Westward prevailing on some shores of the Mediterranean. Increasing to a gale from the North-Westward by evening in the north of Ireland and south-west of England; veering to North-West and continuing to blow a gale on the Bay of Biscay. A gale from South-West experienced at Dover towards night and a strong gale from North North-East in Shetland.

Barometer in morning as low as 28·9 in. in an elongated depression extending from Brittany to the upper part of the North Sea, and relatively low in a small minimum on the Riviera; above 30·1 in. both in the south-west of our area and in the south of Russia. Main depression moving Eastward during day and undergoing considerable modification in form. Baric minimum at 6 p.m. situated over the Straits of Dover. Increase of pressure in the rear of the system over these Islands very gradual.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 47. FORTY-SEVENTH WEEK, SUNDAY, NOVEMBER 19TH, TO SATURDAY, NOVEMBER 25TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—Precipitation, frequently in the form of snow, sleet or hail, occurred on several days in the eastern and northern parts of Great Britain, but in Ireland and towards the west generally the conditions were mostly dry and often bright. Some localities in the south-east of England were also dry; at Dungeness the week was rainless.

Temperature was below the average, the deficit amounting to about 5° in Scotland N., England S.W., and Ireland S. The highest of the maxima were recorded on the 19th or 20th at nearly all stations, and ranged from 53° in the English Channel, and 51° in England N.E. and S.W. to 47° in Scotland E. Late in the week the maximum readings were little above 40° over a large portion of the Kingdom, and on Saturday the thermometer at Nairn rose no higher than 31°. The lowest of the minima, which occurred, as a rule, on the 21st or 22nd, varied from 21° in Scotland E., 22° in Ireland, 23° in Scotland N. and England S.W., and 24° in England S.E. to 28° in England N.E., and to 38° in the English Channel. The lowest grass readings were 10° at Llangammarch Wells, 16° at Newton Rigg and Aspatria, 17° at Buxton, and 18° at Wisley, Markree Castle and Dublin.

Mean Temperature of the Sea.—At most stations the water was warmer than during the corresponding week of last year, but on the west coast of Scotland and on most parts of the Irish coast it was colder. The means for the week ranged from 51°·5 at Newquay, and 50° at Scilly and Salcombe, to 43° at Cleggan and Cromarty, to 42° at Ballantrae and to 40° at Kirkwall.

Rainfall exceeded the normal in Scotland E. and England N.E., but was below it elsewhere, the deficit being slight in England E., but very considerable or large in nearly all other parts of the Kingdom. At Durham, however, as much as 1·0 in. was experienced on the 19th.

Bright Sunshine was above the average in the western section, and below or about equal to it in the eastern section of the Kingdom. The percentage of the possible duration ranged from 41 in Ireland S., 38 in Ireland N., and 33 in Scotland W. and England S.W., to 19 in England S.E., and to 18 in the English Channel and Scotland E.

Barometer and Wind. A great change in the pressure distribution and the resulting direction of the wind took place after the middle of the week. On Sunday the centre of a deep depression lay over the North Sea, and the wind in these Islands was strong to a gale from between North and North-West or West.—No important modification occurred in the wind direction during the two succeeding days, but as the cyclonic centre travelled away eastward there was a general decrease in force. On Wednesday a rather deep depression had developed over the Bay of Biscay region, and the wind began to shift to the North-Eastward over England. As the depression maintained its intensity, while an anticyclone was in course of development to the northward of the United Kingdom, the gradient increased quickly, and North-Easterly gales were experienced on the English Channel. Fresh to high winds from North-East or East continued over the eastern half of England until the end of the period, but in Ireland and Scotland the wind veered to the South-Eastward and blew with little strength.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 372.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very light	Moderate	Moderate	Moderate	Light	Light	Very light	Very light	Very light	Very light	Very light	Moderate
	Sunshine ...	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Very abundant	Abundant	Abundant	Very abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 12 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 6	2 * 4	4 * 3	4 * 2	4 * 2	4 * 3	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 3
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 3	2 * 6	5 * 5	5 * 5	2 * 5	6 * 4	6 * 1
	Sunshine ...	5 * 2	5 * 2	5 * 3	6 * 2	4 * 2	7 * 2	3 * 3	6 * 3	5 * 3	4 * 2	3 * 3	2 * 5

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10190/450 Wy. & S., Ltd. 11—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	FORTY-SEVENTH WEEK—November 19th to November 25th, 1911.																	
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	48	23	40·6	32·1	36·4	− 4·7	0	− 15	39	+18	3	− 2	0·30	−0·98	11	+ 4	21	+ 8
Eastern																		
1. SCOTLAND, EAST	47	21	41·4	33·2	37·3	− 3·0	0	− 14	33	+ 6	5	0	0·73	+0·09	9	− 1	18	− 2
2. ENGLAND, N.E.	51	28	44·0	36·3	40·2	− 1·8	6	− 12	22	+ 5	5	+ 1	0·75	+0·22	13	+ 1	23	+ 2
3. ENGLAND, EAST	49	27	43·4	34·7	39·1	− 2·7	4	− 16	27	+ 7	3	− 1	0·42	−0·05	11	− 1	20	− 2
4. MIDLAND COUNTIES	49	27	42·9	34·2	38·6	− 2·8	3	− 15	28	+ 5	2	− 2	0·23	−0·27	12	+ 1	20	+ 1
5. ENGLAND, S.E.	50	24	43·6	35·2	39·4	− 4·2	4	− 22	25	+11	2	− 2	0·14	−0·45	11	− 1	19	− 2
Western																		
6 SCOTLAND, WEST	48	26	43·2	33·5	38·4	− 4·3	3	− 17	31	+16	1	− 4	0·02	−1·17	18	+ 8	33	+15
7. ENGLAND, N.W.	49	26	43·4	35·8	39·6	− 3·4	4	− 17	23	+10	2	− 2	0·15	−0·64	18	+ 7	32	+13
8. ENGLAND, S.W.	51	23	43·9	35·5	39·7	− 4·9	5	− 24	24	+13	2	− 3	0·16	−0·72	19	+ 6	33	+10
9 IRELAND, NORTH	49	22	44·7	35·2	40·0	− 3·1	8	− 13	26	+12	1	− 4	0·12	−0·78	21	+ 9	38	+16
10. IRELAND, SOUTH	50	22	44·7	34·3	39·5	− 5·0	8	− 21	29	+17	2	− 2	0·08	−0·83	24	+ 9	41	+16
11. ENGLISH CHANNEL	53	38	47·9	41·4	44·7	− 3·6	21	− 25	2	+ 1	4	− 1	0·57	−0·22	11	− 5	18	− 8
	THE SEASON (Autumn).—Aggregates, &c., for the Period of 12 Weeks, September 3rd to November 25th, 1911.																	
0. SCOTLAND, NORTH	68	21	*	*	*	*	436	− 76	130	+38	53	− 7	12·65	−1·54	212	+ 11	24	+ 1
Eastern																		
1. SCOTLAND, EAST	77	15	*	*	*	*	491	− 51	150	+29	48	− 2	9·32	+1·45	261	+ 19	30	+ 2
2. ENGLAND, N.E.	89	25	*	*	*	*	665	+ 23	51	−13	49	+ 4	6·74	−0·06	312	+ 44	35	+ 5
3. ENGLAND, EAST	93	26	*	*	*	*	834	+101	43	−32	44	0	7·38	+1·01	346	+ 46	38	+ 5
4. MIDLAND COUNTIES.. ..	94	25	*	*	*	*	713	+ 44	70	−22	45	+ 2	6·45	−0·38	307	+ 46	34	+ 5
5. ENGLAND, S.E.	91	24	*	*	*	*	879	+ 52	38	−11	43	0	10·13	+2·28	373	+ 71	41	+ 8
Western																		
6 SCOTLAND, WEST	70	21	*	*	*	*	560	− 54	93	+28	43	− 8	11·22	−2·04	266	+ 23	30	+ 3
7. ENGLAND, N.W.	85	23	*	*	*	*	675	− 15	42	− 5	46	− 2	10·65	+0·95	300	+ 52	34	+ 6
8. ENGLAND, S.W.	91	20	*	*	*	*	843	+ 47	33	− 4	50	0	10·97	+0·04	334	+ 44	37	+ 5
9. IRELAND, NORTH	73	22	*	*	*	*	644	0	61	+ 6	46	− 9	9·39	−0·75	283	+ 38	32	+ 4
10. IRELAND, SOUTH	82	22	*	*	*	*	743	− 6	49	+ 2	53	+ 4	12·00	+2·02	312	+ 28	35	+ 3
11. ENGLISH CHANNEL	89	37	*	*	*	*	1125	+ 88	2	0	53	− 1	12·36	+2·78	354	− 1	39	0
	THE YEAR.—Aggregates, &c., for the Period of 47 Weeks, January 1st to November 25th, 1911.																	
0. SCOTLAND, NORTH	84	14	*	*	*	*	2192	+126	545	−104	197	−23	44·40	−1·20	1228	+143	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2450	+138	642	− 99	173	−10	24·63	−2·81	1433	+139	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3029	+437	422	−117	152	−13	19·63	−2·63	1550	+148	37	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3520	+527	452	−144	147	−13	19·03	−2·25	1758	+231	43	+ 6
4. MIDLAND COUNTIES.. ..	98	14	*	*	*	*	3336	+431	485	−140	133	−25	16·76	−6·83	1540	+180	37	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3606	+360	399	− 31	131	−22	21·48	−2·48	1879	+334	46	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2772	+255	440	− 50	169	−22	35·83	−6·28	1504	+180	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3101	+344	356	− 77	152	−24	27·78	−3·13	1631	+286	39	+ 7
8. ENGLAND, S.W.	91	13	*	*		*	3449	+361	330	− 8	148	−27	28·00	−5·58	1772	+265	43	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	2835	+204	363	− 37	166	−41	27·18	−6·82	1476	+240	36	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3318	+283	344	+ 38	180	− 4	31·41	−3·75	1577	+185	38	+ 5
11. ENGLISH CHANNEL	89	28	*	*	*	*	3984	+361	137	+ 26	156	−31	26·69	−1·57	1963	+132	48	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*44*	*25th*	*28*	*23rd*	*41·9*	*34·5*	*38·2*	—	*0*	*27*	7	*0·46*	—	*9·9*	—	*21*	—	*Baltasound.*
	a Lerwick	47	19th	31	24th	42·9	34·3	38·6	− 3·9	3	28	4	0·42	—	8·2	+ 0·8	16	+ 2	Deerness.
	a Stornoway	46	19th	27	25th	41·7	33·1	37·4	− 5·1	0	32	4	0·41	− 0·94	16·1	+ 7·0	32	+14	Stornoway.
	a *Castlebay, Barra Isd.*	*48*	*19th*	*34*	*21st*	*44·4*	*38·4*	*41·4*	− *2·8*	*7*	*14*	*4*	*0·43*	—	*18·7*	—	*35*	—	*Castlebay.*
	a Wick	48	19th	27	24th	43·4	32·9	38·2	− 3·4	4	33	4	0·18	− 0·47	*	*	*	*	* *
	p Strathpeffer	44	19th	24	25th	39·4	31·4	35·4	− 5·2	0	46	3	0·12	− 0·54	8·6	0·0	17	0	Strathpeffer.
	p Glencarron ..	41	19th	23	25th	36·8	28·8	32·8	− 7·6	0	64	3	0·54	− 1·59	*	*	*	*	* *
b, Mainland.	p Fort Augustus	44	20th	29	21, 24, 25th	39·8	32·3	36·1	− 5·1	0	41	4	0·31	− 0·70	9·5	+ 6·0	18	+12	Fort Augustus.
	p Fort William	42	19, 20, 25th	28	25th	40·5	31·6	36·1	− 6·3	0	41	1	0·10	− 1·83	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle S	46	19th	28	24th	42·3	33·3	37·8	− 3·9	1	31	6	0·94	+ 0·38	*9·6*	—	*19*	—	*Gordon Castle.*
	a Nairn	46	19th	25	25th	39·0	31·6	35·3	− 5·5	0	47	6	0·34	− 0·13	9·6	—	19	—	Nairn.
	a Aberdeen	47	19th	32	21st	42·9	34·9	38·9	− 2·7	3	25	6	0·96	+ 0·29	7·4	− 4·6	14	− 9	Aberdeen.
	a Balmoral	44	19th	21	25th	41·6	29·7	35·7	− 2·1	0	44	4	1·01	+ 0·15	7·2	—	14	—	Crathes S.
	p Crieff .. .. S	45	19th	31	21st	41·6	34·5	38·1	− 2·7	0	27	3	0·10	− 0·95	14·8	—	28	—	Balruddery.
	a Leith	47	19th	33	22nd	43·4	37·4	40·4	− 2·4	4	17	4	0·46	+ 0·01	*	*	*	*	* *
	p West Linton .. S	44	19th	26	21st	39·4	30·8	35·1	− 4·5	0	48	3	0·55	—	?*11·3*	—	?*21*	—	*West Linton.*
	p Marchmont .. S	42	20th, 21st	30	21st	40·7	33·7	37·2	− 3·1	0	34	4	1·47	+ 0·78	7·8	− 2·9	14	− 5	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	48	19th	32	21st	44·3	36·7	40·5	− 1·5	6	20	4	0·54	− 0·20	11·4	—	21	—	Cockle Park.
	a Shields	48	19th	29	21st	45·0	36·4	40·7	− 2·1	8	22	4	0·86	+ 0·39	*8·0*	+ *0·8*	*15*	+ *2*	*Newcastle.*
	p Durham	46	19th	29	21st	41·9	35·4	38·7	− 2·7	0	23	5	1·44	+ 0·91	8·2	− 3·3	15	− 6	Durham.
	p Rounton .. M	47	19th	28	21st	42·8	34·6	38·7	− 2·7	2	26	5	1·23	+ 0·77	*	*	*	*	* *
	p Scarborough .. M	51	23rd	32	21st	45·1	39·4	42·3	− 1·0	13	7	5	0·63	+ 0·07	10·7	—	19	—	Scarborough.
	p York	48	19th	30	21st	44·7	36·0	40·4	− 2·0	8	23	5	0·95	+ 0·49	15·0	+ 6·7	27	+12	York.
b, South.	a Spurn Head ..	47	19th	34	21st	45·3	38·7	42·1	− 1·6	15	9	5	0·39	− 0·02	*	*	*	*	* *
	a Lincoln	46	19, 20, 25th	30	21st, 22nd	44·0	35·4	39·7	− 2·0	6	25	5	0·20	− 0·22	17·8	—	31	—	Skegness.
	a Fulbeck	46	20th, 25th	30	21st, 22nd	43·0	34·0	38·5	− 2·7	3	29	5	0·49	+ 0·05	13·6	—	24	—	Rauceby.
3. ENGLAND, E. — a, North.	p Cromer	48	23rd	30	22nd	45·0	35·7	40·4	− 1·8	8	25	6	0·36	—	*12·9*	—	*22*	—	*Lowestoft.*
	p Hillington .. M	47	20th	27	23rd	42·8	32·9	37·9	− 3·8	2	33	5	1·10	+ 0·54	10·2	—	18	—	Cromer.
	a Yarmouth	48	20th	29	22nd	44·1	35·6	39·9	− 3·2	6	24	3	0·43	− 0·09	15·4	+ 2·6	27	+ 5	Hillington.
	a Norwich	47	20th	28	23rd	43·2	33·9	38·6	− 3·8	3	30	4	0·45	—	11·8	—	20	—	Yarmouth.
	p Geldeston	49	20th	28	22nd	43·9	34·8	39·4	− 3·6	5	27	4	0·31	− 0·20	*	*	*	*	* *
	p Cambridge	47	20th	28	21, 22, 23rd	42·9	33·3	38·1	− 4·2	3	31	2	0·33	− 0·09	13·5	− 0·1	23	0	Geldeston.
b, South.	a *Felixstowe*	*44·1*	*36·0*	*40·1*	− *3·8*	*6*	*23*	*3*	*0·41*	—	*10·6*	—	*18*	—	*Felixstowe.*				
	a Clacton-on-Sea ..	*47*	*20th*	*30*	*22nd*	43·7	35·7	39·7	− 3·9	5	23	3	0·27	—	9·9	—	17	—	Clacton.
	a Rothamsted ..	47	20th	29	22nd	42·2	34·3	38·3	− 3·7	1	27	1	0·32	− 0·28	12·0	− 0·9	20	− 2	Rothamsted.
	a *Shoeburyness* ..	46	20th	28	22nd	*43·9*	*33·9*	*38·9*	− *5·1*	*5*	*30*	*2*	*0·29*	− *0·13*	*8·2*	—	*14*	—	*Southend.*
	p Tottenham	*47*	*20th*	*30*	*22nd*	42·7	36·1	39·4	− 4·1	2	21	2	0·22	—	5·3	—	9	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	45	19th	28	21st	41·6	34·5	38·1	− 3·1	0	27	5	0·62	0·00	14·6	—	26	—	Harrogate.
	a Bawtry	48	22nd	29	21st	43·9	34·1	39·0	− 2·8	5	29	4	0·50	+ 0·05	14·9	+ 5·1	26	+ 9	Worksop.
	p *Buxton* .. M	*43*	*19th*	*27*	*21st*	*39·6*	*33·9*	*36·8*	− *3·0*	*0*	*36*	*3*	*0·27*	− *0·83*	*8·9*	—	*16*	—	*Buxton.*
	a Nottingham ..	46	19th, 20th	29	21st	43·4	35·4	39·4	− 2·8	4	24	4	0·57	+ 0·13	12·7	—	22	—	Nottingham.
	p Birmingham, Edgbsn	44	20th	30	21st	41·8	34·7	38·3	− 3·8	0	26	1	0·13	− 0·40	3·5	—	6	—	Birmingham.
	a Raunds .. M	48	20th	27	22nd	42·6	33·0	37·8	− 3·9	2	32	1	0·15	—	*	*	*	*	* *
	a Oxford	48	20th	28	22nd	43·1	35·0	39·1	− 3·6	3	26	1	0·13	− 0·40	11·6	− 0·7	20	− 1	Oxford.
b, West.	a Cheadle .. M	48	20th	29	21st, 22nd	42·6	32·0	37·3	− 3·7	2	35	2	0·14	− 0·51	9·0	—	16	—	Sheffield.
	p Shrewsbury ..	47	24th	32	21st, 23rd	45·0	34·5	39·8	− 3·3	8	29	2	0·19	—	*	*	*	*	* *
	a Hereford .. M	46	19th, 20th	29	22nd	42·9	33·9	38·4	− 4·1	3	29	0	0·00	− 0·55	*	*	*	*	* *
	a Cirencester ..	45	20th	27	22nd	41·2	33·2	37·2	− 4·3	0	34	1	0·04	− 0·62	11·8	− 0·5	20	− 1	Cirencester.
	a Bath	49	20th	29	22nd	43·9	35·6	39·8	− 3·6	5	24	2	0·10	− 0·59	14·6	—	25	—	Bath.
5. ENGLAND, S.E.	p Kew	47	20th	29	22nd	43·3	35·9	39·6	− 3·4	4	22	3	0·18	− 0·29	*7·1*	—	*12*	—	*Ramsgate.*
	a Marlborough ..	46	20th	24	22nd	42·2	33·8	38·0	− 3·4	1	29	2	0·04	− 0·69	4·6	− 6·0	8	−10	Kew.
	a Margate	47	19th, 20th	29	22nd	44·5	37·0	40·8	− 3·6	7	20	3	0·40	− 0·12	8·7	− 1·9	15	− 3	Marlborough.
	a Wisley, Surrey ..	47	20th	27	22nd	43·2	35·7	39·5	− 4·2	3	23	2	0·13	—	5·5	− 7·6	9	−13	Margate.
	a Swarraton .. M	47	20th	25	22nd	42·1	34·3	38·2	− 4·0	0	27	2	0·03	− 0·71	5·2	—	9	—	Wisley.
	a Tunbridge Wells M	45	20th	25	22nd	42·2	33·5	37·9	− 5·0	1	30	4	0·35	− 0·42	22·1	—	37	—	Worthing.
	a Dungeness	47	20th	25	22nd	44·9	34·3	39·6	− 5·7	8	29	0	0·00	− 0·57	7·5	− 7·0	13	−12	Tunbridge Wells.
	p Hastings	48	20th	28	22nd	43·6	35·6	39·6	− 5·4	4	24	2	0·12	− 0·59	5·5	—	9	—	Littlestone.
	p Southampton ..	50	20th	29	22nd	43·8	34·8	39·3	− 5·3	5	26	1	0·11	− 0·62	*12·3*	− *3·3*	*21*	− *5*	*Hastings.*
	a Ventnor	50	20th	31	22nd	45·8	37·2	41·5	− 5·7	11	19	2	0·05	− 0·70	17·2	+ 3·6	29	+ 6	Southampton.
															21·9	+ 7·5	37	+13	Ventnor.
															15·8	+ 1·5	26	+ 3	Eastbourne.
LONDON .. —	a *Westminster* ..	*48*	*20th*	*29*	*22nd*	*44·3*	*37·7*	*41·0*	− *2·4*	*6*	*17*	*2*	*0·24*	− *0·27*	*2·2*	− *3·1*	*4*	− *5*	*Westminster.*
	a *Greenwich*	*47*	*20th*	*28*	*22nd*	*43·1*	*36·3*	*39·7*	− *3·7*	*3*	*21*	*2*	*0·24*	− *0·27*	*3·8*	− *6·2*	*6*	− *11*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	46	24th	27	23rd	43·6	31·9	37·8	− 5·0	4	37	1	0·04	− 1·23	*	*	*	*	* *
	p Glasgow	46	19th	31	21st	42·6	35·5	39·1	− 3.1	2	24	2	0·01	− 0·85	14·7	+ 9·7	27	+18	Glasgow.
	p Rothesay .. S	47	19th, 20th	33	21st	44·4	36·3	40·4	− 2·3	7	22	1	0·01	− 1·18	*	*	*	*	* *
	a Kilmarnock ..	44	19th	26	19th, 21st	42·0	28·3	35·2	− 6·8	0	48	0	0·00	—	*26·7*	—	*50*	—	*Kilmarnock.*
	a Colmonell ..	48	25th	30	24th	43·9	34·1	39·0	− 3·0	5	29	1	0·03	− 1·22	*	*	*	*	* *
	p Dumfries	44	19, 20, 25th	29	21st	41·6	34·4	38·0	− 4·0	0	28	1	0·01	− 0·89	*15·9*	—	*29*	—	*Dumfries.*
	p Cally, Gatehouse S	45	19, 20, 23rd	26	21st	44·8	30·2	37·3	− 4·6	6	43	1	0·01	− 1·26	*	*	*	*	* *
b, ISLE OF MAN	p Douglas	45	19th, 20th	33	21st	43·5	37·0	40·3	− 4·4	4	19	1	0·03	− 1·07	21·9	+ 8·8	39	+16	Douglas.
															16·6	—	29	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	43	19, 20, 24, 25	27	21st	41·6	31·1	36·4	− 5·4	0	39	1	0·07	− 0·91	27·5	—	50	—	Aspatria.
	p Newton Rigg ..	44	25th	26	21st	41·0	31·4	36·2	− 4·1	0	41	3	0·10	− 0·76	19·2	+ 8·5	35	+15	Newton Rigg.
	p Stonyhurst	47	20th	31	21st	42·9	35·6	39·3	− 2·7	3	23	2	0·03	− 1·01	18·7	+ 9·3	33	+16	Stonyhurst.
	p Blackpool .. M	46	19, 20, 23rd	30	21st	43·8	35·2	39·5	− 3·8	5	25	0	0·00	− 0·81	25·3	+15·7	44	+28	Blackpool.
	a M'nch'ster, Prestwich	45	19th, 20th	30	21st	42·4	34·8	38·6	− 3·7	1	25	2	0·94	− 0·74	*9·1*	+ *2·9*	*16*	+ *5*	*Prestwich.*
	a Liverpool (Bidston)	47	19th	34	21st, 22nd	43·7	36·7	40·2	− 2·5	5	20	1	0·26	− 0·33	*15·5*	—	*27*	—	*Liverpool.*
	a Hawarden Bridge ..	47	25th	33	21, 22, 23rd	44·1	36·6	40·4	− 4·0	6	21	1	0·21	− 0·32	*24·3*	+*14·6*	*43*	+*26*	*Southport.*
															16·2	—	*28*	—	*Rhyl.*
b, NORTH WALES	p Llandudno .. M	49	19th, 20th	38	23rd	45·3	41·1	43·2	− 2·4	12	3	1	0·21	− 0·49	8·9	− 2·7	16	− 5	Llanduduo.
	a Holyhead	48	19th	37	25th	45·3	39·7	42·5	− 3·6	13	6	3	0·15	− 0·83	22·4	—	39	—	Aberdovey.
	p Bettws-y-Coed ..	47	19th, 20th	33	21st	44·1	35·3	39·7	− 5·7	6	25	5	0·44	—	5·0	—	9	—	Bettws-y-Coed.
															22·2	—	38	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	45	19th, 20th	24	22nd	41·7	32·6	37·2	− 4·3	0	34	3	0·09	—	11·6	—	20	—	Llangammarch Wells.
	a Pembroke	51	19th	35	22, 23, 24, 25	46·4	37·6	42·0	− 5·3	12	12	2	0·17	− 0·73	20·6	+ 7·0	35	+12	Pembroke.
	p Cardiff	49	20th	29	22nd	43·6	34·0	38·8	− 4·6	4	29	1	0·01	− 0·95	*23·9*	—	*39*	—	*Cardiff.*
															24·7	+*11·0*	*43*	+*19*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	47	20th	31	22nd	43·2	35·6	39·4	− 4·7	3	23	2	0·02	− 0·73	*13·9*	—	*24*	—	*Clifton.*
	a Shaftesbury .. M	45	20th	27	22nd	40·7	32·8	36·8	− 6·0	0	36	1	0·06	− 0·75	*	*	*	*	* *
	a Arlington	47	20th	27	22nd	42·7	34·6	38·7	− 5·0	2	27	1	0·50	− 0·85	18·2	+ 1·7	30	+ 3	Newquay.
	a Cullompton .. M	49	20th	23	22nd	44·2	33·3	38·8	− 5·2	6	32	2	0·25	− 0·60	16·0	+ 3·9	27	+ 7	Cullompton.
	a Portland Bill ..	50	20th	34	22nd	45·6	39·3	42·5	− 4·3	15	8	2	0·05	—	*20·7*	—	*35*	—	*Weymouth.*
	p Plymouth	51	20th	30	22nd	45·9	36·0	41·0	− 5·5	11	24	1	0·13	− 0·75	25·9	+11·7	43	+20	Plymouth.
	p Falmouth	49	20th	33	22nd	45·1	39·3	42·2	− 5·4	13	8	2	0·32	− 0·84	21·1	+ 5·1	35	+ 9	Falmouth.
															24·0	—	*40*	—	*Salcombe.*
															19·8	+ *5·5*	*33*	+ *9*	*Torquay.*
9. IREELAND, N. — a, West.	a Malin Head	47	19th	37	21st	44·7	39·6	42·2	− 2·3	11	7	2	0·16	− 0·59	*	*	*	*	* *
	a Blacksod Point ..	48	19th	33	22nd	44·9	38·1	41·5	− 4·5	8	16	1	0·24	− 1·02	*	*	*	*	* *
	p Markree Castle ..	47	20th	23	22nd	44·9	30·7	37·8	− 5·1	8	42	1	0·09	− 0·91	22·4	+10·9	40	+20	Markree Castle.
	a Birr Castle	47	19th, 20th	22	22nd, 23rd	44·0	29·4	36·7	− 6·3	6	46	1	0·01	− 0·74	*22·4*	+ *8·6*	*39*	+*15*	*Birr Castle.*
b, East.	p Armagh	46	19th, 20th	26	22nd	44·2	33·6	38·9	− 3·9	6	31	1	0·09	− 0·61	20·2	+ 8·2	36	+15	Armagh.
	a Donaghadee	49	19th	39	21, 22, 23rd	45·6	39·9	42·8	− 1·5	14	6	1	0·12	− 0·62	*	*	*	*	* *
10. IREELAND, S. — a, East.	p Dublin, City	47	19th	30	22nd	45·0	36·8	40·9	− 4·4	8	20	2	0·10	− 0·54	14·8	− 0·3	26	− 1	Phœnix Park.
	a Kilkenny	46	19, 20, 23rd	28	22nd	44·1	33·1	38·6	− 4·7	6	33	2	0·07	− 0·69	*	*	*	*	* *
	a Waterford	48	20th	28	22nd	44·6	33·7	39·2	− 5·5	7	31	1	0·09	− 0·84	*	*	*	*	* *
b, West.	a Birr Castle	47	19th, 20th	22	22nd, 23rd	44·0	29·4	36·7	− 6·3	6	46	1	0·01	− 0·74	22·4	+ 8·6	39	+15	Birr Castle.
	a Foynes	47	19th, 20th	29	22nd	43·5	34·5	39·0	− 6·0	4	27	1	? 0·01	− 0·96	*	*	*	*	* *
	a Cahir .. .. M	48	20th	29	22nd	44·1	34·6	39·4	− 5·2	6	28	2	0·03	—	*	*	*	*	* *
	a Killarney	50	20th	25	22nd	45·7	31·6	38·7	− 6·6	10	39	2	0·07	− 1·36	*	*	*	*	* *
	a Valencia	49	19th, 20th	32	22nd	46·4	36·9	41·7	− 5·7	12	21	2	0·28	− 1·09	33·2	+18·9	57	+33	Valencia.
	a Roche's Point ..	48	19th, 20th	34	22nd, 23rd	45·3	38·0	41·7	− 5·0	9	17	3	0·03	− 1·05	24·0	—	41	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	51	20th	38	22nd	47·6	41·6	44·6	− 5·0	20	1	3	0·07	− 0·76	14·3	− 2·2	24	− 4	Scilly.
	a Jersey, St. Aubins ..	52	19th, 20th	38	22nd	48·0	41·3	44·7	− 3·4	22	2	5	0·70	− 0·23	8·7	− 8·1	14	−13	St. Heliers.
	a Guernsey	53	20th	38	22nd	48·0	41·4	44·7	− 3·8	21	2	4	0·95	− 0·10	9·1	− 4·3	15	− 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 20·3 hrs.* (+ *5·5 hrs.*), *34* % (+ *9* %); *Bournemouth, 22·7 hrs., 38* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	38·1	—
0. — — ..				
0. — — ..				
1. Aberdeen	—	—	—	44·9
1. Crathes	5	24	39·4	44·0
1. Balmoral	6	19	—	—
1. Marchmont ..	2	27	38·9	—
2. Cockle Park	3	24	38·5	44·1
2. Durham	1	25	—	—
2. York	—	—	43·3	48·1
2. Hull	3	26	41·4	48·0
2. Lincoln	—	—	41·1	47·7
2. Rauceby	4	25	42·4	49·5
3. Norwich	4	21	—	—
3. Yarmouth	—	—	41·3	48·7
3. Lowestoft	2	24	42·2	48·7
3. Cambridge	3	23	42·3	49·4
3. Clacton-on-Sea ..	—	—	45·0	50·6
3. Southend	3	25	44·1	—
3. Tottenham	2	26	—	50·6
4. Harrogate	3	24	41·7	45·5
4. Huddersfield ..	2	24	40·7	47·2
4. Buxton	4	17	40·0	47·9
4. Sheffield	2	22	41·7	47·7
4. Nottingham	3	25	40·4	47·0
4. Birmingham	3	24	42·1	48·8
4. Oxford	2	24	—	—
4. Hereford	4	21	—	—
4. Cirencester	3	23	43·3	48·6
4. Bath	—	—	44·3	49·7
5. Margate	2	24	44·9	49·4
5. Greenwich	2	22	—	—
5. Westminster ..	2	22	—	—
5. Kew	2	20	42·9	49·9
5. Canterbury	2	22	43·8	47·1
5. Tunbridge Wells ..	2	20	43·4	—
5. Wisley	2	18	42·8	49·4
5. Worthing	2	20	44·8	51·4
5. Portsmouth	1	25	43·9	51·1
6. Glasgow	5	19	—	—
6. Rothesay	—	—	—	46·2
6. Colmonell	4	27	—	—
6. Dumfries	5	21	39·5	45·9
6. Douglas	1	28	—	—
7. Aspatria	6	16	40·2	47·2
7. Newton Rigg ..	7	16	41·3	46·1
7. Burnley	4	19	40·2	46·8
7. Southport	6	22	39·1	46·1
7. Manchester City ..	2	27	41·2	48·7
7. Bettws-y-Coed ..	0	32	42·9	48·0
8. Llangammarch Wells	7	10	42·8	49·6
8. Cardiff	2	23	41·7	49·3
8. Clifton	3	27	—	—
8. Plymouth	2	19	44·3	—
9. Armagh	6	19	41·7	47·6
9. Markree	5	18	42·8	49·5
10. Dublin, Trin. Coll. ..	5	18	43·3	48·2
11. Guernsey, Brooklyn	—	—	—	—

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	47	46	46·3
	Kirkwall	41	40	40·4
	Wick	49	47	47·7
SCOTLAND E.	Cromarty	44	42	43·0
	Pennan Bay	46	43	44·8
	Aberdeen, Cove Bay ..	47	46	46·9
ENGLAND, N.E.	Burnmouth, Berwick ..	45	43	43·7
	Scarborough	46	40	44·3
ENGLAND, E.	Shipwash Lightship ..	51	47	48·8
	Margate‡	50	45	46·4
ENGLAND, S.E.	Eastbourne‡	50	46	48·9
SCOTLAND, W.	Lamlash	47	44	45·9
	Ballantrae	44	41	42·2
ENGLAND, N.W.	Port Erin	50	46	48·0
ENGLAND, S.W.	Newquay	53	50	51·5
	Scilly	51	50	50·3
	Plymouth‡	50	48	49·0
	Salcombe	53	47	50·0
IRELAND, N.W.	Sheephaven	47	46	46·4
	Teelin	48	44	45·4
IRELAND, S.W.	Cleggan	47	38	43·0
	Seafield	50	43	46·6
IRELAND, E. ..	.. ..	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR OCTOBER, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

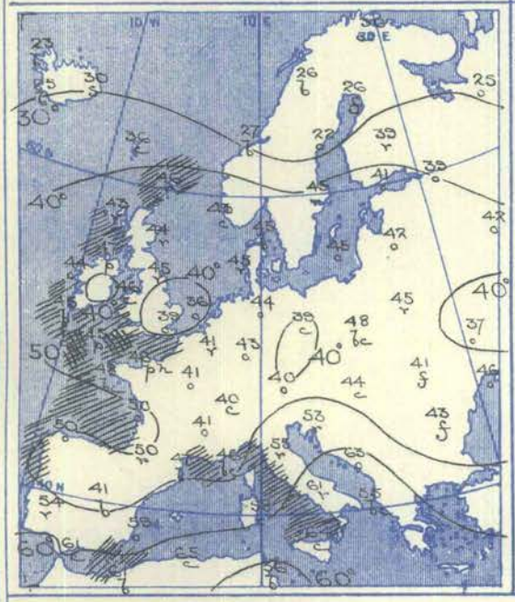
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 40, p. 322	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	0·24	−1·13	—	—	—	—
No. 40, p. 322	5. England, S.E. ..	62	—	—	—	—	—	—	—	—	—	—	0·96	+0·26	—	—	—	—
No. 41, p. 330	0. Scotland. N. ..	—	—	—	—	—	—	—	—	—	—	—	0·03	−1·22	—	—	—	—
No. 41, p. 330	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	0·39	−0·24	—	—	—	—
No. 41, p. 330	9. Ireland, N.	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 346	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	19	+ 1	28	+ 1
No. 43, p. 846	10. Ireland, S.	—	—	—	—	—	—	—	—	—	—	—	—	—	22	+ 1	32	+ 2
No. 43, p. 346	11. English Channel ..	—	—	—	—	—	—	—	—	—	—	—	2·01	+1·09	—	—	—	—
Station Values.— Additions.																		
No. 40, p. 323	Strathpeffer	55	5th	38	1st	52·2	40·6	46·2	− 2·4	35	4	5	0·11	−0·50	17·8	− 5·5	23	− 7
No. 40, p. 323	Margate	62	6th	42	3rd	57·2	47·1	52·0	− 2·5	70	0	5	2·04	−1·50	30·2	+ 1·2	38	+ 2
No. 41, p. 331	Cromer	59	8, 12	44	11th	56·8	47·3	51·9	+ 0·9	69	0	5	0·17	—	31·4	—	41	—
No. 43, p. 347	Baldruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	23·0	—	34	—
No. 44, p. 355	Tunbridge Wells ☒	57	30, 4	29	29th	54·3	38·5	46·4	0·0	46	10	6	1·40	+0·61	30·9	+11·2	46	+17
Station Values.— Corrections.																		
No. 37, p. 299	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	46·1	+ 8·5	52	+10
No. 40, p. 323	York	—	—	—	—	—	42·4	49·0	− 2·4	49	—	—	—	—	—	—	—	—
No. 40, p. 323	Buxton	—	—	—	—	51·9	—	45·4	− 2·9	36	—	—	—	—	—	—	—	—
No. 40, p. 323	Raunds .. .. ☒	—	—	—	—	55·4	—	47·8	− 4·0	46	—	—	—	—	—	—	—	—
No. 40, p. 323	Hereford .. .. ☒	—	—	—	—	55·0	40·7	—	—	45	4	—	—	—	—	—	—	—
No. 40, p. 323	Cirencester	—	—	—	—	—	41·3	47·5	− 4·1	41	2	—	—	—	—	—	—	—
No. 40, p. 323	Stonyhurst	—	—	—	—	—	41·9	47·3	− 2·9	38	—	—	—	—	—	—	—	—
No. 41, p. 331	Lerwick	—	—	—	—	—	—	—	—	—	—	—	0·17	—	—	—	—	—
No. 41, p. 331	Buxton	—	—	—	—	55·1	—	45·7	− 0·9	48	—	—	—	—	—	—	—	—
No. 41, p. 331	Donaghadee	58	11th	—	—	55·0	—	49·5	− 0·7	53	—	—	—	—	—	—	—	—
No. 42, p. 339	Spurn Head	—	—	—	—	56·6	—	54·1	+ 4·2	85	—	—	—	—	—	—	—	—
No. 42, p. 339	Raunds .. .. ☒	—	—	—	—	—	—	—	—	—	—	5	0·16	—	—	—	—	—
No. 42, p. 339	Llandudno	—	—	—	—	58·4	51·5	54·9	+ 4·2	90	—	—	—	—	16·4	− 3·3	22	− 5
No. 42, p. 339	Cullompton .. ☒	—	—	—	—	61·1	53·1	57·0	+ 7·8	105	—	—	—	—	—	—	—	—
No. 42, p. 339	Jersey	—	—	—	—	63·3	54·7	58·9	+ 5·1	118	—	—	—	—	—	—	—	—
No. 43, p. 347	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·51	−0·24	—	—	—	—
No. 43, p. 347	Spurn Head	—	—	—	—	—	—	—	—	—	—	5	0·80	+0·27	—	—	—	—
No. 43, p. 347	Aspatria	—	—	—	—	—	38·2	43·4	− 2·5	—	11	—	—	—	14·5	—	22	—
No. 43, p. 347	Plymouth	—	—	—	—	—	46·4	51·1	+ 0·8	64	—	—	—	—	—	—	—	—
No. 43, p. 347	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	22·1	—	32	—
No. 43, p. 347	Guernsey	—	—	—	—	—	—	—	—	—	—	—	2·91	+1·86	—	—	—	—
No. 44, p. 355	Buxton	—	—	—	—	—	—	—	—	—	—	—	—	—	7·8	—	12	—
No. 44, p. 355	Hereford .. .. ☒	—	—	—	—	55·1	—	46·0	0.0	50	—	—	—	—	—	—	—	—
No. 44, p. 355	Plymouth	—	—	—	—	55·7	40·7	48·2	− 1·2	49	4	—	—	—	—	—	—	—

		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 40, p. 324	Margate	? 0	? 34	52·3	57·3
No. 41, p. 332	Bath	—	—	53·3	56·6
No. 44, p. 356	Tunbridge Wells ☒	4	23	47·2	—
Station Values.— Corrections.					
No. 41, p. 332	Baltasound	—	—	46·9	—

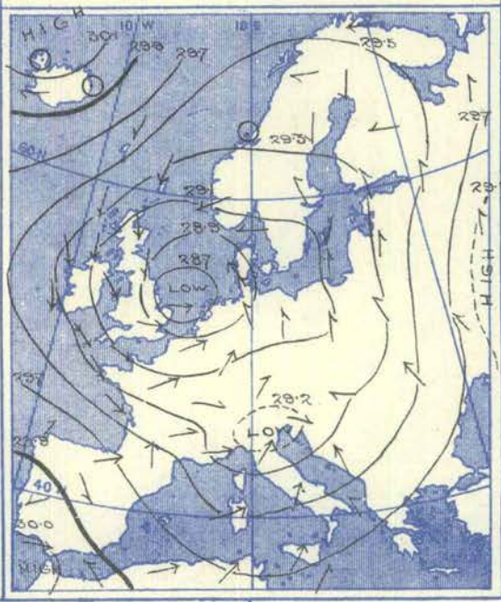
		Temperature of the Sea. Highest.	Lowest.	Mean
Station Values.— Additions.				
No. 40, p. 324	Lerwick	52	51	51·6
No. 41, p. 332	Lerwick	51	51	51·0
No. 42, p. 340	Pennan Bay	49	49	49·0

Sunday, 19th November, 1911.

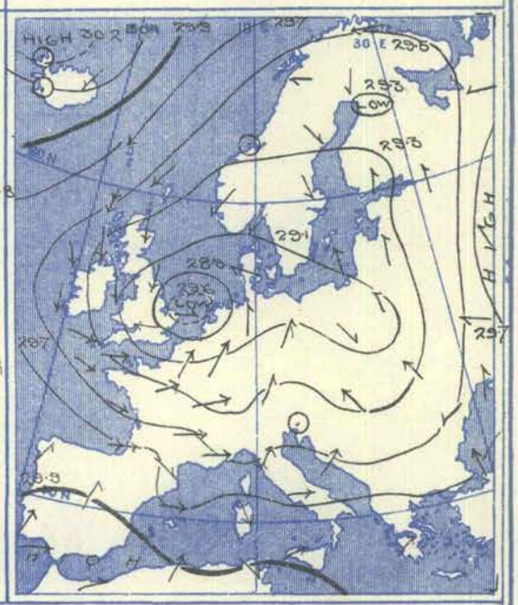
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning squally, with rain in places, over the United Kingdom, and also over the western countries of the Continent and Italy. Overcast, with rain or snow at a few stations, in Finland and Poland and overcast in Russia. Fine and bright in the west of Norway and in Algeria. Rain experienced later in almost all parts of our area; more than 0·5 in. at Nottingham, many places in the west and north of France, the Netherlands, central Europe and Italy; as much as 1·5 in. at Flushing. A thunderstorm occurring at Biarritz.

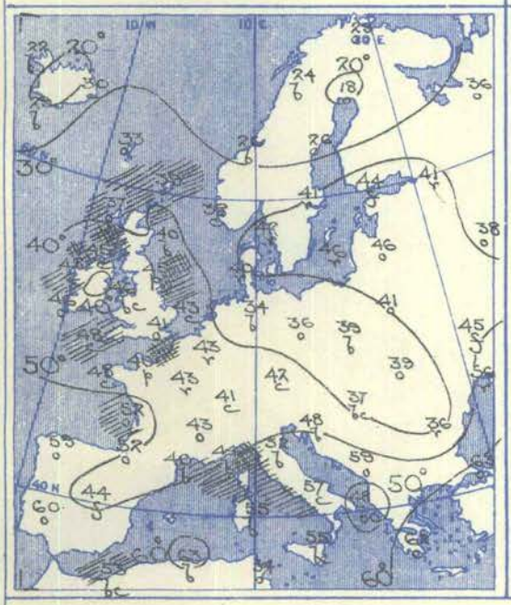
Temperature risen in Scotland, fallen in England and France. Morning readings below 32° in the northern half of Scandinavia and in the north of Russia, below 40° in central Ireland and most parts of England, and very little above it in France and the north of Italy; about 60° in the south of Spain and Italy, and 65° at Malta and Algiers. Maxima during day below 50° in nearly all parts of these Islands and in the central regions of Europe, as well as in the east of France and at Turin. No higher than 50° at Madrid. Above 70° in Algeria, at Malta, Palermo and Malaga.

Wind in morning cyclonic over the greater part of our area; Northerly current fresh or strong to a gale on our western and south-western coasts, a strong North-West to West breeze prevailing on the Channel and Bay of Biscay, and fresh to high winds from South-West in the Netherlands. Fresh to very strong or high winds from South-West general in Italy and the adjacent portion of the Mediterranean. Increasing to a gale from West subsequently at Jersey and also from North-East on the coast of Caithness.

Barometer in morning below 28·6 in. in a depression centred over the southern part of the North Sea and below 29·2 in. in another over the north of Italy. Above 30·1 in. in the north of Iceland and also in the Madeira region, and above 29·8 in. in central and southern Russia. North Sea disturbance becoming rather less deep during day, but remaining in almost the same position. Italian depression moving in a north-easterly direction. Barometric rise becoming accelerated in the north and north-west of these Islands.

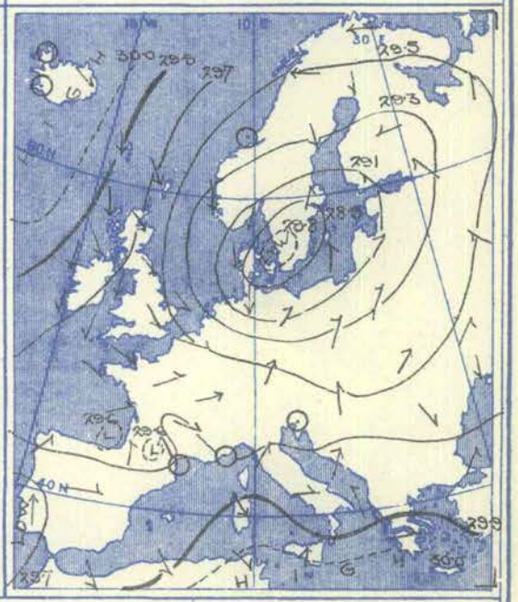
Monday, 20th November, 1911.

Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.

Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast in nearly all places in the west and north of our area, with rain or passing showers in many localities both in these Islands and on the Continent. Mostly fine and bright in the Mediterranean region, but overcast at some stations and rainy at Athens. Snow and sleet falling later in the north of the United Kingdom and rain in several places. Considerable or heavy rains in some parts of France, in the Netherlands, Germany and northern Europe; as much as 1·1 in. at Skagen.

Temperature risen in England, fallen in most other regions. Readings in morning below 32° over the northern half of Scandinavia and below 40° in some parts of Ireland and Scotland, and over a large area on the Continent; above 60° at Algiers, Malta and in the south of Greece, and above 50° in the south generally. Maxima during day below 50° in almost all parts of these Islands; only 40° at Nairn. Below 50° in most localities in central Europe; above 65° at many stations on the shores of the Mediterranean.

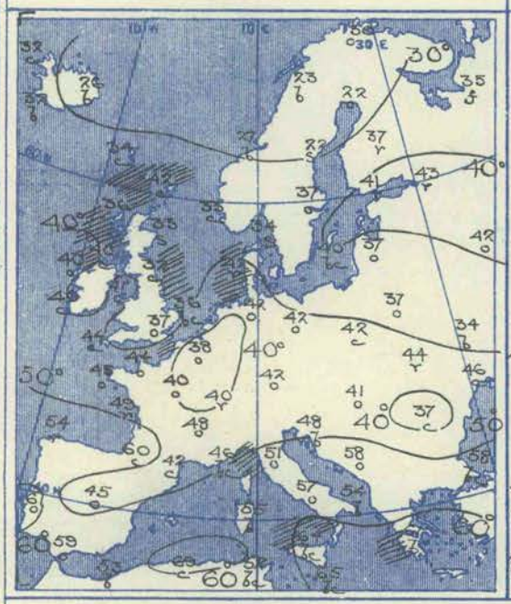
Wind in morning cyclonic very generally. Moderate to strong from North or North-West over these Islands, strong to a gale from South-West or West in South Germany and the east of France, and strong from North-East in the south of Scandinavia. Moderate to high winds from the Westward on the Mediterranean. Increasing to a gale from the Northward beyond the North Sea by evening, but decreasing in force over this country.

Barometer in morning below 29·0 in. in a large depression having its minimum over Denmark and the Baltic; above 30·1 in. in Iceland and above 30·0 in. in Tunis. Relatively low between Portugal and the Azores. Main disturbance growing deeper during day and gradient near its centre increasing considerably. Low pressure system in the extreme south-west approaching nearer the Peninsula.

Tuesday, 21st November, 1911.

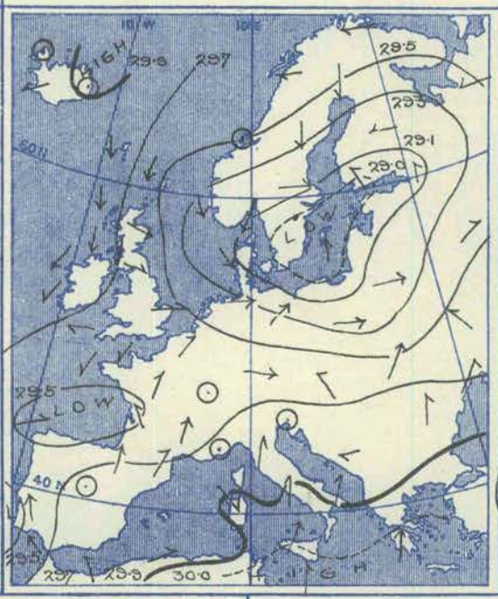
Temperature and Weather.

7 a.m.

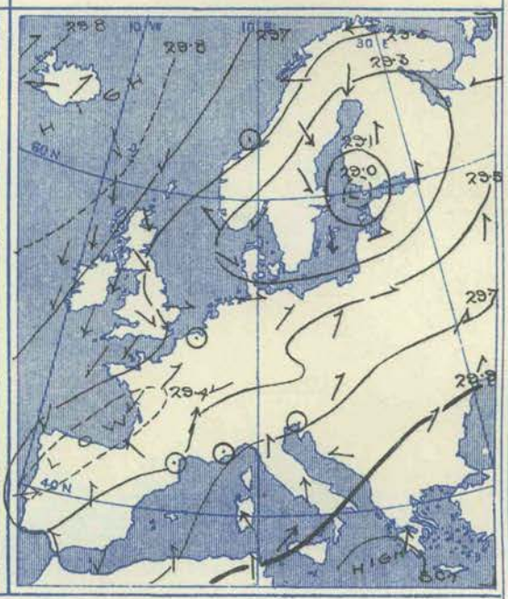


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or dull in these Islands, with snow and hail in the north-east of Scotland and showers of rain at Pembroke. Mainly overcast on the Continent except in the extreme south, and rainy in places; snow prevalent in some parts of Scandinavia. Heavy rain later in many parts of France and in some German localities and moderate or slight falls over our area generally.

Temperature risen at several places in the far south, but fallen generally elsewhere. Readings at 7 a.m. below 32° over the greater portion of Scandinavia, about 35° at many of our own stations, and between 40° and 45° over a large area in France and the central countries. Above 60° at various stations in the extreme south; as high as 69° at Algiers. Maxima during day about 40° in a large portion of this country and between 40° and 50° in France and central Europe. Above 70° in Algiers, Sicily and Malta; as high as 84° at Algiers. Sharp frost at night in England and central Ireland.

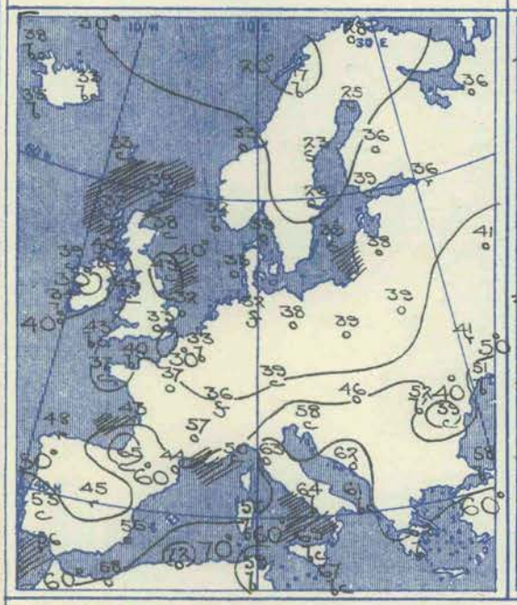
Wind in morning continuing cyclonic over nearly the whole of our area. Northerly to North-Westerly current moderate to fresh in these Islands, but strong to high beyond the North Sea. Westerly to South-Westerly current strong to high in central Europe. Decreasing in force in most regions later in day, but increasing on some shores of the Mediterranean.

Barometer in morning below 29·0 in. in a large depression covering the Baltic, and below 29·5 in. in two other systems, one over the Bay of Biscay and the other between Portugal and Madeira. Relatively high in the south and north-west of our area and also in the Azores region. Baltic disturbance decreasing in intensity during day, but the two other depressions coalescing, growing deeper, and forming an elongated minimum extending from Lisbon to Le Mans. Some small secondaries appearing over the North Sea.

Wednesday, 22nd November, 1911.

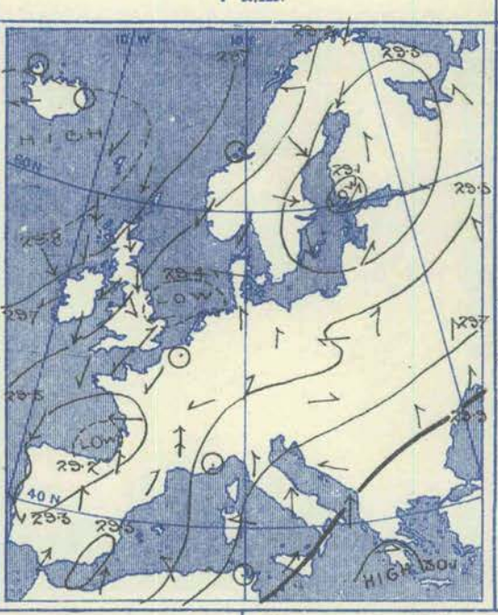
Temperature and Weather.

7 a.m.

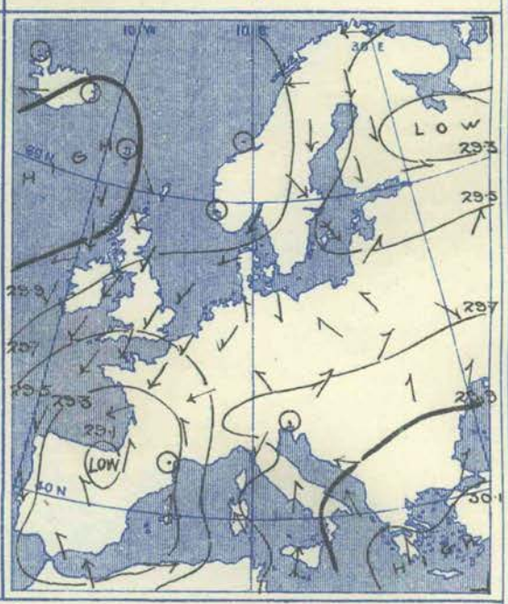


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable in these Islands; fair at many stations, showery in central and eastern England. Rainy in several parts of France and Spain, and also at some stations in central Europe and St. Petersburg. Snow in the north of Sweden. Mostly fair or fine on the shores of the Mediterranean. Heavy rains later in various parts of France, the Spanish Peninsula, the north of Italy and the adjacent portion of Switzerland; 1·2 in. at Lugano, 1·6 in. at Malaga, and 0·9 in. at San Fernando and Clermont.

Temperature changed rather irregularly; risen in the north of these Islands, fallen in the south and the nearer countries of the Continent. Readings in morning ranging from 72° at Algiers, 69° at Palermo, and above 60° at many southern stations to below 40° over the greater part of our area, to 27° on the coast of Kent, 23° at Birr Castle, and to 17° at Bodö. Maxima during day not much above 40° over the United Kingdom, the north and east of France, and central Europe, and below 32° in Sweden. As high as 70° at some extreme southern stations 77° at Algiers, and 81° at Palermo.

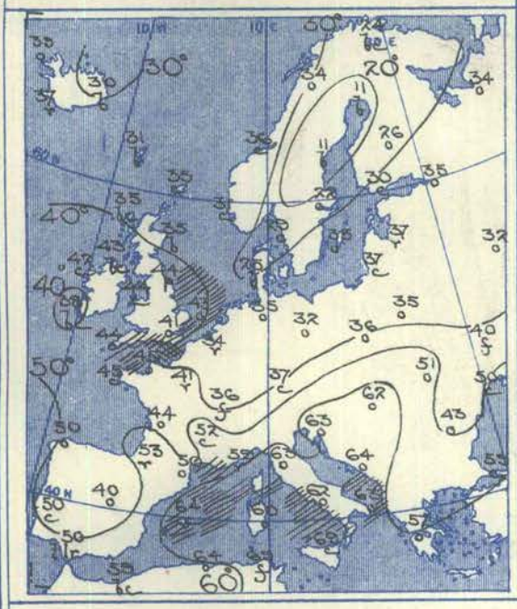
Wind in morning mainly cyclonic, the chief circulations being over northern Europe and the Bay of Biscay region. A gale from South prevailing at Lyons, a strong breeze from East at Rochefort, and from South-West at Gibraltar. A fresh to high wind from the Northward in Scandinavia, and light to fresh Northerly breezes in the United Kingdom. A moderate to strong Southerly breeze general on the Mediterranean. Wind becoming more Easterly over these Islands, increasing to a gale from North-West at Wisby, and to a strong gale from South at Palma.

Barometer in morning above 30·1 in. at the Azores and also in Greece, and above 29·8 in. between Scotland and Iceland. Below 29·1 in. in a larger depression having its minimum over the Gulf of Finland, below 29·2 in. in a disturbance over the Bay of Biscay, and below 29·4 in. in a shallow system over the North Sea. Bay depression increasing in depth during day, but barometer rising in the United Kingdom, and gradients growing steep during night on the English Channel.

Thursday, 23rd November, 1911.

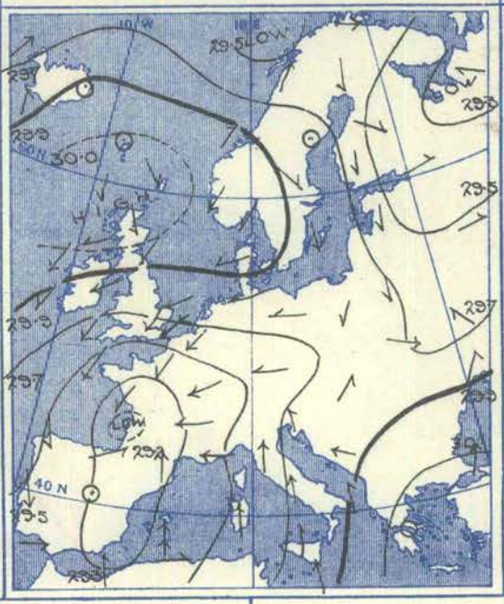
Temperature and Weather.

7 a.m.

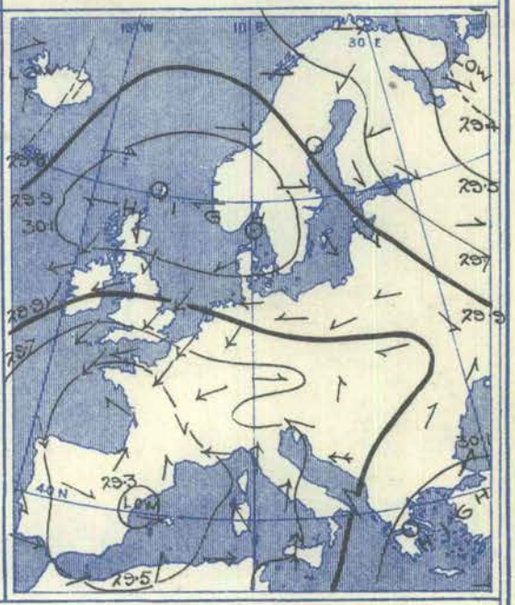


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy in many parts of France, Belgium and northern Italy, as well as at Riga. Showers prevalent in the north-east of Britain, and a thunderstorm at San Fernando. Cloudy or overcast in most other regions. Showers experienced later in various parts of these Islands and large quantities in the south of France, and at Palma and Lugano. More than 1·2 in. at Biarritz, 1·8 in., with thunder and lightning at Nice, 1·2 in. at Palma, and 2·7 in. at Lugano.

Temperature risen in Ireland, England and the north of France, as well as at many Mediterranean stations; fallen decidedly in Sweden. Morning readings below 40° over a large area on the Continent and these Islands, 32° at Berlin, and as low as 11° at Hernösand and Haparanda. Above 60° over the major portion of Italy and the Mediterranean and also at Buda-Pesth; 67° at Rome, and 69° at Palermo and Malta. Rising to 79° during day at Palermo and to 70° over a large portion of Italy, as well as at Patras. Maxima low over the central and northern countries and no higher than 46° at Madrid and 50° at Turin.

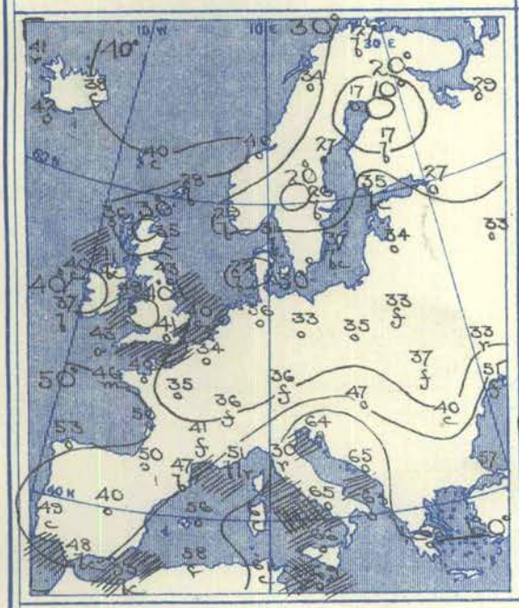
Wind in morning showing an extensive cyclonic circulation in the south-west of our area. North-Easterly current fresh to high on our southern and the Dutch coasts, and a gale prevailing at Dungeness. Southerly current fresh or strong generally on the Mediterranean; blowing a gale at Palma. A high wind from Easterly to South-Easterly reported at Lesina. Increasing to gale force later in the English Channel, as well as at Palermo.

Barometer in morning above 30·1 in. at the Azores and also in the south-east of Europe, and above 30·0 in. in Scotland. Below 29·2 in. in a well-marked depression centred over the south-west of France, and below 29·3 in. in the north of Russia. Barometer rising during day in the French depression and its neighbourhood and also in the United Kingdom, and gradient increasing somewhat on the Channel. Little modification occurring in the general situation.

Friday, 24th November. 1911.

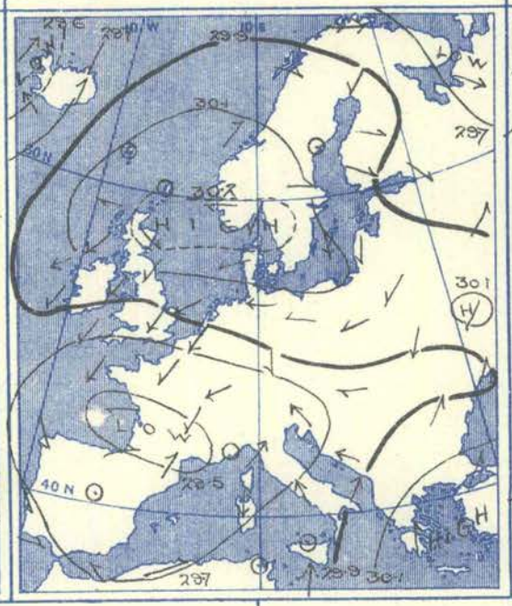
Temperature and Weather.

7 a.m.

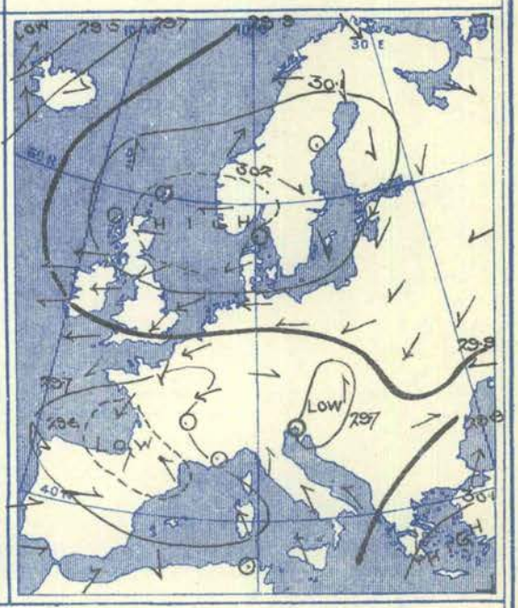


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or quite overcast in most parts of our area, with a thunderstorm at Nice, rain at Malaga, Turin, and Lugano, some stations in central Europe and at Kieff. Fair to bright in Algeria. Rain experienced later over a large area in central and southern Europe; about an inch at Lugano and Bilbao, 1·1 in. at Monaco, and 1·5 in. at Cracow.

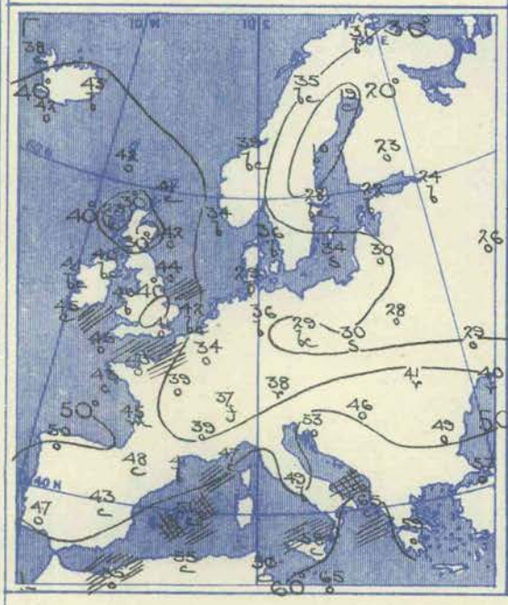
Temperature changed irregularly. Readings in morning as low as 8° at Uleaborg, and below 20° at Haparanda and Kuopio; 22° at Blaavands Huk, and 28° at Nairn. About 40° in England, 50° in the south-west and south of France, and above 60° on many shores of the Mediterranean and Adriatic; 69° at Malta. Maxima during day below 45° in most parts of these Islands, and only 36° at Nairn. Thermometer rising to about 70° in Algeria and Tunis, and touching 79° at Palermo. Frost continuing throughout in Norway and Sweden.

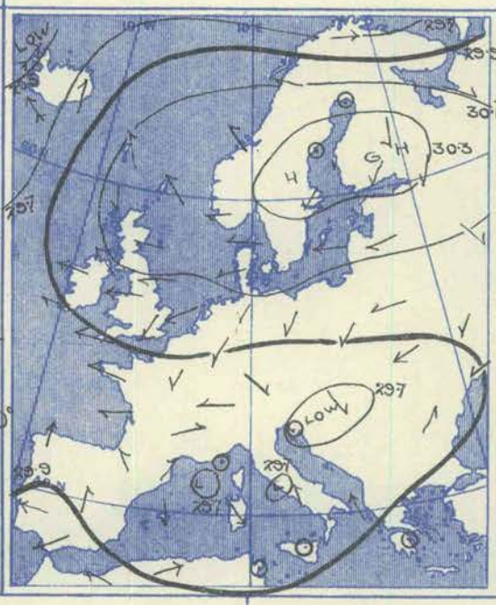
Wind in morning Easterly or North-Easterly over these Islands, the North Sea, the Netherlands, and the north of France; strong or high on our eastern and southern coasts. A fresh to strong Southerly current prevailing over Italy and its neighbourhood. Some decrease in force taking place later in England, but no change of importance occurring. Increasing to a strong gale from South-West in the north-west of Iceland.

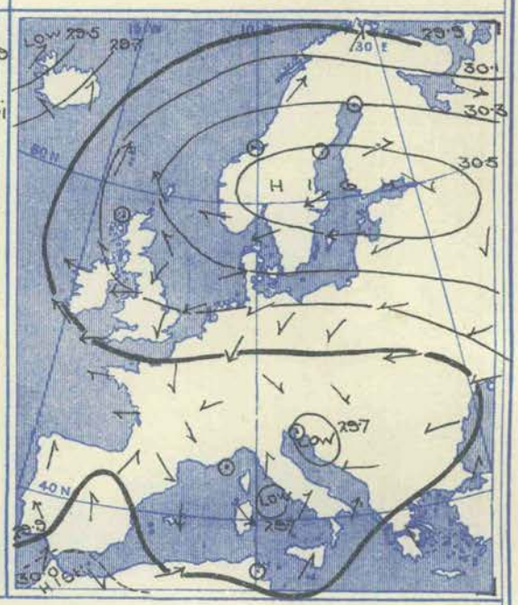
Barometer in morning above 30·2 in. in an anticyclone having its maximum area extending from Scotland to Sweden. Below 29·5 in. in a large depression in the south of France and its vicinity, and also in the north of Russia. Southern depression becoming less deep during day, but no change taking place in the general distribution of pressure.

Saturday, 25th November, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning cloudy to overcast generally, but fair to bright in some localities. Rain or snow falling in some places in central Europe and on the shores of the Baltic, and rain at Bilbao and Nicolaieff. Very little precipitation experienced later in the United Kingdom, but considerable quantities of rain or snow in the east of France, Bavaria, and at Lemberg, and of rain at Trieste, Leghorn and Patras.

Temperature fallen in most regions. Morning readings ranging from 65° at **Malta and** Brindisi and about 55°-at many other southern stations to below 32° in the north-east of Scotland and over a large area in northern and eastern Europe, and to below 20° over most of Sweden. Maximum during day only 31° at Nairn, but above 40° over these Islands generally, above 50° in the south and south-west of France, and above 60° in the extreme south of our area. Thermometer remaining below 40° in the Netherlands, central Europe, as well as in the east of France, and only touching 32° in a few places. Sharp frost all day in Sweden.

Wind in morning mainly anticyclonic over the northern half of our area, cyclonic elsewhere. Easterly current fresh on our east and south-east coasts. Strong winds to strong gales from the Southward general in Iceland. A fresh North-West wind prevailing in Sardinia, and a high wind from the South-Eastward at Brindisi. Increasing to a high wind from the Eastward during day or at night at Dungeness and on the coast of Yorkshire, but little change occurring generally. Force becoming less strong on the Mediterranean.

Barometer in morning above 30·3 in. in a large high pressure system centred over the region of the Gulf of Bothnia. Below 29·5 in. in a depression situated some distance to the Westward of Ireland and relatively low thence across the Bay of Biscay and Italy to Hungary; below 29·5 in. between Iceland and Greenland. Anticyclone increasing considerably in intensity during day, but no change of importance occurring in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E. 180° = S. 270° = W. and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	Nov. 14th, 3.10 p.m. to 3.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	284·5° 80% 200°, 6	284·0 80% 200°, 12	281·5° 90% 210°, 17					280° 95% 210°, 18	800	Strong gusty wind.
2	Nov. 22nd, 10.30 a.m.	* Aberdeen.	Wind	5°, 4·9	14°, 10·4	29°, 14·2	32°, 17·7	36°, 18·6			36°, 10·7	1,750	Lifting power of balloon 50.5 grms. Observed for 13 minutes above Station A. 11 minutes above Station B. Direction: point from which the wind is coming.
3	Nov. 22nd, 11.30 a.m.	* Aberdeen.	Wind	5°, 4·9	14°, 25 10·4	29° 11·2	31°, 30 17·7	36° 13·6			36° 10·7	1,750	Observed for 13 minutes above Station A. 11 minutes above Station B.
4	Nov. 25th, 10.35 a.m. to 11.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature. Humidity .. Wind	278·°0 80% 45°,6	277·5° 80% 45°, 10	274·0° 90% 70°, 17	271° 100% 80°, 17				276·5° 30% 90°, 17	1,200	Clouds at 950 m. with sharp inversion just above.

* Observation with two Theodolites at Stations *A* and *B*.—*A* King's College 35.35 m. *B* Woodside, 32.6 m. distant 920 m., 150° from *A*.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites	1	—	—	1
Area of Surface (sq. metres) ..	7	—	—	7
Capacity of Balloon (cub. metres) ..	—	0·04	0·04	—
Length of Wire (metres)	800	—	—	1,300

South Kensington, London, S.W. *November 29th, 1911.* W. N. SHAW *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

385

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. *Vol. XXVIII (New Series.)* } No. 48. FORTY-EIGHTH WEEK, SUNDAY, NOVEMBER 26TH, TO SATURDAY, DECEMBER 2ND, 1911. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather underwent frequent changes, and while its general character was unsettled, all parts of the Kingdom experienced some days with little or no rain. In the extreme north of Ireland, and at a few places in Scotland, and the south-east of England the greater part of the period was dry. Snow and sleet were experienced early in the week in the north and east. Thunder was heard at Kilmarnock on December 1st.

Temperature differed little from the average over the Kingdom generally. In Scotland, England N.W., and Ireland N. it was above the average; in other districts below it. The highest of the maxima were recorded on rather irregular dates, but in most localities they occurred on Nov. 29th or Dec. 2nd, the values ranging from 56° in Scotland N., Ireland N. and England N.W. to 51° in England E. The lowest of the minima were registered, as a rule, during the earlier half of the week. In Scotland E. and N. respectively the thermometer fell to 20° and 21°, but elsewhere the values ranged from 24° in England S.W., and 26° in several other districts to 31° in England N.W., and to 34° in the English Channel. The lowest grass readings recorded were 17° at Llangammarch Wells, 19° at Wisley, 21° at Plymouth, and 22° at Kew, Rauceby, Dublin and Armagh.

Mean Temperature of the Sea. As a rule the water was warmer than during the corresponding week of last year on the north, east and south-east coasts, and colder elsewhere. The means for the week ranged from about 48° on the south-west coast of England, and at Port Erin, to 40° at Kirkwall.

Rainfall was less than the average in all districts except England N.E. Falls as heavy as 0·5 in. within 24 hours were very rare; at Hawarden Bridge the total fall for the week was only 0·08 in., at Wisley 0·09 in., at Kew 0·11 in., and at Gordon Castle 0·13 in.

Bright Sunshine was less than the normal in Ireland and the eastern and central parts of England, above it in the Western Districts. The percentage of the possible duration ranged from 30 in England S.W., 24 in England N.W., and 22 in the English Channel, to 11 in Ireland S. and England N.E. and to 8 in England E.

Barometer and Wind. The main features in the pressure distribution were a large anticyclone on the Continent and very large, deep cyclonic systems on the Atlantic. At the beginning of the week the centre of the former lay over Scandinavia, while the barometer was lowest to the South and South-Westward of these Islands. The wind was consequently from some Easterly point, and on Monday, when the low pressure extended over England, the general current of wind underwent no great alteration. By Tuesday, however, the high pressure had begun to move Southwards towards central Europe, while the lowest pressure was to the North-Westward of these Islands, and the wind drew into the Southward. On Wednesday and Thursday the anticyclonic maximum was found over the central countries of the Continent and the passage of unusually deep cyclonic disturbances on the Atlantic towards Iceland increased the gradient very considerably over the United Kingdom; gales or strong winds from the Southward became common on our western and northern coasts. Towards the end of the week the central area of the anticyclone was again situated over northern Europe, whence it extended to the Spanish Peninsula and decreased in intensity.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 388.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Light	Moderate	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Abundant	Abundant	Moderate	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 13 weeks from Sept. 3rd, 1911.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

PAST SEASONS.

AUTUMN, 1910. Sept. 4th–Dec. 3rd. 13 weeks.	Warmth ...	2 * 5	2 * 5	5 * 8	5 * 6	3 * 7	4 * 8	3 * 5	3 * 8	3 * 7	4 * 4	3 * 6	3 * 6
	Rainfall ...	3 * 9	3 * 7	3 * 8	5 * 5	4 * 3	5 * 4	1 * 6	4 * 7	4 * 5	2 * 8	2 * 7	6 * 4
	Sunshine ...	7 * 1	6 * 3	6 * 5	2 * 6	2 * 6	5 * 6	4 * 3	5 * 2	5 * 6	5 * 3	2 * 4	1 * 6
WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2

10217 / 450 Wy. & S., Ltd. 12–11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-EIGHTH WEEK—November 26th to December 2nd, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	56	21	46·2	36·1	41·2	+ 0·9	12	0	24	− 1	5	− 1	1·13	− 0·28	7	+ 1	15	+ 2
Eastern																		
1. SCOTLAND, EAST	54	20	45·6	34·7	40·2	+ 0·9	10	− 1	28	− 3	5	+ 2	0·62	− 0·07	9	0	17	0
2. ENGLAND, N.E.	52	29	44·0	35·8	39·9	− 1·2	6	− 8	23	+ 2	5	0	0·60	+ 0·11	6	− 5	11	− 9
3. ENGLAND, EAST	51	27	44·4	36·5	40·5	− 0·2	7	− 8	21	− 4	4	+ 1	0·29	− 0·21	4	− 7	8	−12
4. MIDLAND COUNTIES	53	26	45·2	34·6	40·0	− 0·4	9	− 6	29	+ 3	5	+ 1	0·43	− 0·10	7	− 3	12	− 6
5. ENGLAND, S.E.	54	26	45·9	36·5	41·2	− 1·2	11	− 10	22	+ 4	4	+ 1	0·34	− 0·30	9	− 2	16	− 4
Western																		
6 SCOTLAND, WEST	53	29	46·9	37·7	42·3	+ 0·1	20	+ 3	12	− 5	5	+ 1	1·06	− 0·19	9	+ 1	18	+ 1
7. ENGLAND, N.W.	56	31	46·9	38·7	42·8	+ 0·5	19	+ 1	9	− 6	5	+ 1	0·54	− 0·22	13	+ 4	24	+ 8
8. ENGLAND, S.W.	54	24	47·9	38·3	43·1	− 0·6	23	− 2	10	− 4	5	+ 1	0·64	− 0·36	17	+ 5	30	+ 8
9 IRELAND, NORTH	56	26	48·0	37·2	42·6	+ 0·3	24	+ 6	13	− 3	4	− 1	0·62	− 0·25	8	− 2	15	− 4
10. IRELAND, SOUTH	55	26	48·9	35·6	42·3	− 1·5	29	+ 3	18	+ 5	5	0	0·78	− 0·14	6	− 6	11	−11
11. ENGLISH CHANNEL	54	34	49·8	42·4	46·1	− 1·2	29	− 11	0	− 2	3	− 2	0·49	− 0·41	13	− 1	22	− 2

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 13 Weeks, September 3rd to December 2nd, 1911.

0. SCOTLAND, NORTH	68	21	*	*	*	*	448	− 76	154	+37	58	− 8	13·78	− 1·82	219	+ 12	24	+ 1
Eastern																		
1. SCOTLAND, EAST	77	15	*	*	*	*	501	− 52	178	+26	53	0	9·94	+1·38	270	+ 19	29	+ 2
2. ENGLAND, N.E.	89	25	*	*	*	*	671	+ 15	74	−11	54	+ 4	7·34	+0·05	318	+ 40	34	+ 4
3. ENGLAND, EAST	93	26	*	*	*	*	841	+ 93	64	−36	48	+ 1	7·67	+0·80	350	+ 39	37	+ 4
4. MIDLAND COUNTIES	94	25	*	*	*	*	722	+ 38	99	−19	50	+ 3	6·88	−0·48	314	+ 43	33	+ 5
5. ENGLAND, S.E.	91	24	*	*	*	*	890	+ 42	60	− 7	47	+ 1	10·47	+1·98	382	+ 69	40	+ 7
Western																		
6 SCOTLAND, WEST	70	21	*	*	*	*	580	− 51	105	+23	48	− 7	12·28	−2·23	275	+ 23	29	+ 3
7. ENGLAND, N.W.	85	23	*	*	*	*	694	− 14	51	−11	51	− 1	11·19	+0·63	313	+ 56	33	+ 6
8. ENGLAND, S.W.	91	20	*	*	*	*	866	+ 45	43	− 8	55	+ 1	11·61	−0·32	351	+ 49	37	+ 5
9. IRELAND, NORTH	73	22	*	*	*	*	668	+ 6	74	+ 3	50	−10	10·01	−1·00	291	+ 36	31	+ 4
10. IRELAND, SOUTH	82	22	*	*	*	*	772	− 3	67	+ 7	58	+ 4	12·78	+1·88	318	+ 21	33	+ 2
11. ENGLISH CHANNEL	89	34	*	*	*	*	1154	+ 77	2	− 2	56	− 3	12·85	+2·37	367	− 2	38	0

THE YEAR.—Aggregates, &c., for the Period of 48 Weeks, January 1st to December 2nd, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	2204	+126	569	−105	202	−24	45·53	−1·48	1235	+143	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2460	+137	670	−102	178	− 8	25·25	−2·88	1442	+139	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3035	+429	445	−115	157	−13	20·23	−2·52	1556	+144	37	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	3527	+519	473	−148	151	−12	19·32	−2·46	1762	+224	42	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	3345	+425	514	−137	138	−24	17·19	−6·93	1547	+177	37	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3617	+350	421	− 27	135	−21	21·82	−2·78	1888	+331	45	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2792	+258	452	− 55	174	−21	36·89	−6·47	1513	+180	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3120	+345	365	− 83	157	−23	28·32	−3·45	1644	+290	39	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3472	+359	340	− 12	153	−26	28·64	−5·94	1789	+270	43	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2859	+210	376	− 40	170	−42	27·80	−7·07	1484	+238	35	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3347	+286	362	+ 43	185	− 4	32·19	−3·89	1583	+179	38	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	4013	+350	137	+ 24	159	−33	27·18	−1·98	1976	+131	47	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*48*	*30, 1, 2nd*	*37*	*27th*	*45·8*	*39·7*	*42·8*	—	*15*	*6*	*6*	*0·79*	—	*5·9*	—	*14*	—	*Baltasound.*
	a Lerwick	49	2nd	38	27th, 28th	46·4	41·3	43·9	+ 2·0	16	2	6	0·86	—	8·9	+ 2·6	19	+ 6	Deerness.
	a Stornoway	53	30th	26	27th	47·3	32·4	39·9	− 1·9	15	38	5	0·81	− 0·54	7·4	− 0·8	15	− 2	Stornoway.
	a *Castlebay, Barra Isd.*	*52*	*30th*	*37*	*28th*	*48·3*	*41·6*	*45·0*	+ *1·3*	*23*	*1*	*6*	*0·59*	—	*9·2*	—	*18*	—	*Castlebay.*
	a Wick	50	2nd	36	28th, 29th	47·0	39·0	43·0	+ 2·0	20	8	5	0·30	− 0·35	*	*	*	*	* *
	p Strathpeffer.. ..	52	30th	21	26th	44·1	31·6	37·9	− 1·9	6	38	4	0·49	− 0·20	8·4	+ 1·1	17	+ 2	Strathpeffer.
	p Glencarron .. S	56	30th	27	26th	46·3	34·4	40·4	+ 0·5	12	30	5	2·03	− 0·14	*	*	*	*	* *
	p Fort Augustus S	53	2nd	29	26th	46·0	36·4	41·2	+ 0·6	11	22	6	1·30	+ 0·23	3·9	+ 1·6	8	+ 3	Fort Augustus.
	p Fort William S	52	30th, 2nd	32	28th	46·6	37·6	42·1	+ 0·1	19	12	5	2·15	+ 0·15	*	*	*	*	* *
1. SCOTLAND, E. .. — b, Mainland.	p Gordon Castle S	52	2nd	32	26th	46·4	36·4	41·4	+ 0·5	12	23	2	0·13	− 0·42	*11·7*	—	*24*	—	*Gordon Castle.*
	a Nairn	52	2nd	20	26th, 27th	45·0	30·4	37·7	− 2·3	8	43	5	0·15	− 0·32	9·5	—	19	—	Nairn.
	a Aberdeen	49	1st, 2nd	36	28th, 30th	45·9	39·4	42·7	+ 1·7	16	7	3	0·39	− 0·28	8·4	− 2·6	17	− 5	Aberdeen.
	a Balmoral .. S	49	1st	27	30th	45·1	30·6	37·9	+ 0·7	9	42	3	1·20	+ 0·38	8·0	—	16	—	Crathes S.
	p Crieff .. .. S	50	2nd	31	28th	45·1	35·4	40·3	+ 0·2	9	26	6	1·17	+ 0·15	7·6	—	15	—	Balruddery.
	a Leith	54	2nd	33	28th	48·6	38·1	43·4	+ 1·3	26	11	6	0·50	+ 0·05	*	*	*	*	* *
	p West Linton.. S	50	2nd	30	29th, 30th	44·3	33·3	38·8	− 0·2	6	32	6	0·78	—	*?11·4*	—	*?22*	—	*West Linton.*
	p Marchmont .. S	49	2nd	30	28th	44·0	34·1	39·1	− 0·5	6	29	5	0·66	+ 0·01	8·8	− 0·7	17	− 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	50	29th, 2nd	31	29th, 30th	45·8	35·8	40·8	− 0·4	11	24	4	0·72	+ 0·01	7·1	—	14	—	Cockle Park.
	a Shields	52	2nd	32	29th, 30th	45·7	35·4	40·6	− 1·5	10	26	4	0·76	+ 0·30	*4·0*	− *2·3*	*8*	− *4*	*Newcastle.*
	p Durham	49	2nd	30	29th	43·0	35·2	39·1	− 1·0	3	25	4	0·78	+ 0·29	7·6	− 3·0	14	− 6	Durham.
	p Rounton .. M	50	2nd	32	29th, 30th	44·0	35·9	40·0	− 0·4	6	23	5	0·46	+ 0·04	*	*	*	*	* *
	p Scarborough.. M	48	29th, 2nd	34	27th, 28th	44·1	38·6	41·4	− 1·0	6	14	5	0·41	− 0·13	9·9	—	18	—	Scarborough.
	p York	48	2nd	30	29th, 30th	43·0	35·7	39·4	− 2·1	3	23	5	0·43	− 0·02	4·2	− 3·0	8	− 6	York.
	a Spurn Head	47	2nd	34	28th, 30th	43·6	37·3	40·5	− 2·4	4	18	5	0·63	+ 0·22	*	*	*	*	* *
2. ENGLAND, N.E. — b, South.	a Lincoln	49	2nd	29	30th	43·4	33·7	38·6	− 2·4	4	30	5	0·70	+ 0·28	2·4	—	4	—	Skegness.
	a Fulbeck	49	2nd	30	30th	43·2	34·3	38·8	− 1·4	3	28	6	0·55	+ 0·12	2·8	—	5	—	Rauceby.
															1·6	—	*3*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	47	29th	31	27th, 28th	43·9	34·8	39·4	− 1·2	5	27	6	0·34	—	4·9	—	9	—	Cromer.
	p Hillington .. M	46	2nd	30	27th, 28th	43·2	35·4	39·3	− 1·2	3	24	5	0·44	− 0·11	0·4	−10·4	1	−19	Hillington.
	a Yarmouth	47	30, 1, 2nd	34	27th, 28th	44·7	39·1	41·9	− 0·2	8	12	2	0·19	− 0·31	1·4	—	3	—	Yarmouth.
	a Norwich	48	2nd	31	28th	43·6	36·7	40·2	− 1·3	4	20	6	0·32	—	*	*	*	*	* *
	p Geldeston	47	28th, 29th	32	27th	44·8	38·3	41·6	− 0·6	8	15	3	0·26	− 0·24	3·3	− 9·2	6	−16	Geldeston.
	p Cambridge	48	29th, 2nd	27	28th	44·2	34·8	39·5	− 1·9	6	27	4	0·25	− 0·15	3·8	− 7·5	7	−13	Cambridge.
	a *Felixstowe* ..	*47*	*29th*	*33*	*27th*	*44·4*	*38·1*	*41·3*	− *1·5*	*7*	*16*	*4*	*0·34*	—	*6·6*	—	*12*	—	*Felixstowe.*
3. ENGLAND, E. — b, South.	a Clacton-on-Sea ..	47	28th	33	27th	44·3	38·4	41·4	− 1·2	6	15	3	0·45	—	2·2	—	4	—	Clacton.
	a Rothamsted ..	51	2nd	28	28th	45·1	33·8	39·5	− 1·7	9	31	5	0·25	− 0·35	9·7	− 1·8	17	− 3	Rothamsted.
	a *Shoeburyness* ..	*48*	*2nd*	*32*	*27th*	*44·3*	*37·3*	*40·8*	− *2·3*	*6*	*18*	*2*	*0·37*	− *0·02*	*3·5*	—	*6*	—	*Southend.*
	p Tottenham	51	29th	32	26th	45·8	37·3	41·6	− 0·9	11	19	1	0·15	—	8·7	—	15	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	50	2nd	32	30th	43·3	35·1	39·2	− 1·2	4	25	4	0·36	− 0·24	8·1	—	15	—	Harrogate.
	a Bawtry	52	2nd	30	30th	44·3	34·7	39·5	− 1·1	6	27	4	0·58	+ 0·14	1·1	− 7·7	2	−14	Worksop.
	p *Buxton* .. M	*48*	*2nd*	*31*	*27th*	*41·5*	*36·5*	*39·0*	*6·0*	*0*	*21*	*5*	*0·71*	− *0·39*	*7·4*	—	*14*	—	*Buxton.*
	a Nottingham ..	52	2nd	26	30th	45·1	33·7	39·4	− 1·8	9	31	5	0·47	+ 0·02	4·9	—	9	—	Nottingham.
	p Birmingham, Edgbsn	50	29th	30	28th	44·0	36·3	40·2	− 0·8	6	22	4	0·63	+ 0·09	6·5	—	12	—	Birmingham.
	a Raunds .. M	50	29th	28	30th	44·6	33·1	38·9	− 2·0	7	33	4	0·29	—	*	*	*	*	* *
	a Oxford	51	29th	29	30th	46·4	35·3	40·9	− 0·8	12	27	5	0·19	− 0·33	6·4	− 4·6	11	− 8	Oxford.
4. MIDLAND COUNTIES. — b, West.	a Cheadle .. M	50	29th	30	28th, 29th	44·6	33·2	38·9	− 1·3	7	33	6	0·56	− 0·09	7·9	—	14	—	Sheffield.
	p Shrewsbury ..	53	2nd	30	29th	47·8	35·9	41·9	− 0·8	16	26	4	0·28	—	*	*	*	*	* *
	a Hereford .. M	51	2nd	29	28th	44·8	34·5	39·7	− 1·9	8	29	5	0·51	− 0·04	*	*	*	*	* *
	a Cirencester	50	2nd	27	28th	44·5	33·9	39·2	− 1·2	7	30	6	0·56	− 0·08	6·9	− 4·1	12	− 7	Cirencester.
	a Bath	52	2nd	29	28th	48·0	35·3	41·7	− 0·8	17	28	6	0·30	− 0·39	11·8	—	21	—	Bath.
															7·5	—	*13*	—	*Ramsgate.*
5. ENGLAND, S.E...	p Kew	49	29th, 2nd	30	27th	45·2	35·0	40·1	− 2·3	9	27	3	0·11	− 0·38	8·2	− 1·4	14	− 2	Kew.
	a Marlborough ..	51	2nd	29	30th	45·6	33·8	39·7	− 1·1	10	31	5	0·41	− 0·29	4·1	− 4·9	7	− 9	Marlborough.
	a Margate	49	29th	33	27th	45·5	38·4	42·0	− 1·5	10	10	3	0·39	− 0·11	5·1	− 7·0	9	−12	Margate.
	a Wisley, Surrey ..	53	2nd	27	30th	46·8	34·2	40·5	− 2·4	13	31	2	0·09	−	9·2	—	16	—	Wisley.
	a Swarraton .. M	51	2nd	26	28th	43·4	33·8	38·6	− 2·9	4	30	5	0·46	− 0·26	12·8	—	22	—	Worthing.
	a Tunbridge Wells M	49	1st	30	27th, 28th	45·0	35·4	40·2	− 1·9	8	25	6	0·36	− 0·38	8·8	− 4·0	15	− 7	Tunbridge Wells.
	a Dungeness	52	29th	33	30th	46·9	39·3	43·1	− 1·2	19	8	2	0·27	− 0·28	6·3	—	11	—	Littlestone.
	p Hastings	50	29th	33	26th, 27th	46·6	39·7	43·2	− 0·8	18	6	4	0·45	− 0·24	*8·5*	− *5·9*	*15*	− *10*	*Hastings.*
	p Southampton ..	50	2nd	31	27th	45·1	36·2	40·7	− 3·0	9	23	4	0·44	− 0·26	5·9	− 6·5	10	−11	Southampton.
	a Ventnor	54	29th	31	27th	49·3	38·9	44·1	− 2·3	28	9	4	0·40	− 0·34	20·0	+ 7·0	34	+12	Ventnor.
															10·0	− 3·1	17	− 5	Eastbourne.
LONDON .. —	a *Westminster* ..	*52*	*2nd*	*34*	*26th, 27th*	*48·0*	*39·4*	*43·7*	+ *1·1*	*23*	*7*	*3*	*0·15*	− *0·35*	*1·8*	− *2·5*	*3*	− *4*	*Westminster.*
	a *Greenwich*	*51*	*2nd*	*30*	*30th*	*45·9*	*35·7*	*40·8*	− *1·8*	*11*	*25*	*4*	*0·17*	− *0·33*	*2·1*	− *6·9*	*4*	−*12*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	51	30th	32	27th	47·3	35·6	41·5	− 0·6	15	26	5	1·03	− 0·23	*	*	*	*	* *
	p Glasgow	51	2nd	34	28th	46·1	39·1	42·6	+ 0·9	16	8	6	0·85	− 0·02	5·4	+ 1·4	11	+ 3	Glasgow.
	p Rothesay .. S	52	2nd	38	26, 27, 28th	47·4	39·9	43·7	+ 1·1	21	6	5	1·14	− 0·03	*	*	*	*	* *
	a Kilmarnock ..	53	2nd	29	26th	46·3	36·3	41·3	− 0·4	12	23	5	0·46	—	*11·3*	—	*22*	—	*Kilmarnock.*
	a Colmonell	52	1st	32	26th	47·1	36·7	41·9	0·0	14	22	5	0·99	− 0·24	*	*	*	*	* *
	p Dumfries .. S	50	29th	30	30th	45·9	35·4	40·7	− 0·7	11	26	5	1·15	+ 0·25	*9·5*	—	*18*	—	*Dumfries.*
	p Cally, Gatehouse S	50	29, 30, 1st	32	26th	48·0	37·3	42·7	+ 1·4	25	13	5	1·97	+ 0·73	*	*	*	*	* *
6. b, ISLE OF MAN ..	p Douglas	51	29th, 2nd	36	27th, 28th	47·4	41·0	44·2	+ 0·1	20	3	5	0·87	− 0·23	13·2	+ 1·3	24	+ 2	Douglas.
															16·9	—	31	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	53	2nd	32	26th	46·9	37·9	42·4	+ 1·2	20	11	7	0·76	− 0·20	11·2	—	21	—	Aspatria.
	p Newton Rigg ..	51	2nd	32	29th	44·9	36·0	40·5	+ 0·7	8	23	6	0·66	− 0·20	9·0	− 0·6	17	− 1	Newton Rigg.
	p Stonyhurst	51	2nd	35	27th	44·7	38·7	41·7	+ 0·2	8	13	3	0·28	− 0·75	7·0	− 1·1	13	− 2	Stonyhurst.
	p Blackpool .. M	52	2nd	33	26th, 28th	46·8	37·4	42·1	− 0·5	20	13	5	0·39	− 0·37	12·2	+ 3·9	23	+ 7	Blackpool.
	p M'nch'ster, Prestwich	52	2nd	34	26th, 29th	46·4	38·5	42·5	+ 0·9	18	10	3	0·24	− 0·55	*3·7*	− *1·4*	*7*	− *3*	*Prestwich.*
	a Liverpool (Bidston)	53	2nd	34	28th	46·1	38·0	42·1	− 0·2	18	11	5	0·30	− 0·27	*18·0*	—	*33*	—	*Liverpool.*
	a Hawarden Bridge ..	56	2nd	36	28, 29, 30th	48·0	39·2	43·6	− 0·2	23	8	3	0·08	− 0·44	*14·8*	+ *6·2*	*27*	+*12*	*Southport.*
															18·2	—	*33*	—	*Rhyl.*
7. b, NORTH WALES ..	p Llandudno .. M	53	1st, 2nd	38	27, 28, 29, 30	48·7	40·7	44·7	− 0·2	24	4	5	0·42	− 0·25	16·1	+ 5·8	29	+11	Llandudno.
	a Holyhead	51	2nd	37	26th	48·1	42·4	45·3	− 0·2	23	0	6	1·14	+ 0·19	20·2	—	36	—	Aberdovey.
	p Bettws-y-Coed ..	54	2nd	31	26th	47·9	37·7	42·8	− 1·8	24	12	6	1·11	—	12·9	—	23	—	Bettws-y-Coed.
															21·6	—	39	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	52	1st, 2nd	30	28th, 29th	45·9	35·4	40·7	− 0·1	11	26	7	0·75	—	9·2	—	16	—	Llangammarch Wells.
	a Pembroke	53	2nd	34	27th	49·9	41·7	45·8	− 0·8	28	1	4	1·33	+ 0·43	18·4	+ 5·9	32	+10	Pembroke.
	p Cardiff	53	1st	31	28th	47·5	37·3	42·4	− 0·1	23	13	7	0·74	− 0·25	*11·5*	—	*20*	—	*Cardiff.*
															16·1	+ *3·6*	*28*	+ *6*	*Tenby.*
8. b, ENGLAND, S.W.	a Clifton	53	2nd	31	28th	47·6	37·7	42·7	− 0·8	23	12	5	0·38	− 0·39	*11·1*	—	*20*	—	*Clifton.*
	a Shaftesbury .. M	50	2nd	28	27th	45·4	35·5	40·5	− 1·7	10	25	3	0·28	− 0·52	*	*	*	*	* *
	a Arlington	53	2nd	28	27th	47·1	37·3	42·2	− 1·0	21	13	4	0·84	− 0·51	22·3	+ 7·3	39	+13	Newquay.
	a Cullompton .. M	53	1st	24	28th	48·0	35·2	41·6	− 1·7	17	28	7	0·39	− 0·46	8·4	− 2·4	15	− 4	Cullompton.
	a Portland Bill ..	52	29, 30, 1, 2	31	27th	49·7	41·3	45·5	− 6·5	27	2	5	0·28	—	*11·1*	—	*19*	—	*Weymouth.*
	p Plymouth	54	1st	30	27th, 28th	50·0	39·7	44·9	− 1·1	30	6	4	0·85	− 0·05	15·2	+ 2·2	26	+ 4	Plymouth.
	p Falmouth	53	2nd	32	27th	47·9	41·4	44·7	− 2·4	21	2	3	0·60	− 0·69	22·2	+ 7·8	38	+14	Falmouth.
															17·8	—	*31*	—	*Salcombe.*
															16·9	+ *3·7*	*29*	+ *6*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	52	30th	37	28th	48·0	39·0	43·5	− 0·6	23	8	2	0·67	− 0·08	*	*	*	*	* *
	a Blacksod Point ..	53	29, 30, 1st	37	27th	49·4	41·0	45·2	− 0·2	27	3	4	1·33	+ 0·05	*	*	*	*	* *
	p Markree Castle ..	56	30th	28	29th	48·0	33·3	40·7	− 1·7	17	35	3	0·46	− 0·54	4·0	− 6·2	7	−12	Markree Castle.
	a Birr Castle	53	30th	26	27th	48·1	33·0	40·6	− 1·9	17	36	6	0·38	− 0·36	*7·4*	− *5·4*	*14*	−*10*	*Birr Castle.*
9. IRELAND, N. — b, East.	p Armagh	52	30th	32	26th, 27th	46·4	37·5	42·0	− 0·2	12	13	6	0·30	− 0·39	12·5	+ 1·8	23	+ 3	Armagh.
	p Donaghadee	52	2nd	35	28th	47·9	39·6	43·8	+ 0·2	23	7	4	0·56	− 0·16	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	55	2nd	37	27, 28, 29th	49·3	39·8	44·6	− 0·1	27	6	7	0·37	− 0·22	7·9	− 5·9	14	−11	Phœnix Park.
	a Kilkenny	52	30th, 2nd	29	28th, 29th	47·9	32·9	40·4	− 2·5	17	36	6	0·43	− 0·32	*	*	*	*	* *
	a Waterford	52	30th, 2nd	30	29th, 30th	49·1	34·0	41·6	− 2·6	20	33	4	0·80	− 0·14	*	*	*	*	* *
	a Birr Castle	53	30th	26	27th	48·1	33·0	40·6	− 1·9	17	36	6	0·38	− 0·36	7·4	− 5·4	14	−10	Birr Castle.
10. IRELAND, S. — b, West.	a Foynes	53	29th	29	27th	49·5	34·8	42·2	− 2·6	32	20	6	0·67	− 0·32	*	*	*	*	* *
	a Cahir .. .. M	52	30th	28	28th	47·8	32·9	40·4	− 3·8	16	36	5	0·37	—	*	*	*	*	* *
	a Killarney	53	29th	27	27th	49·0	36·1	42·6	− 2·4	29	17	5	1·73	+ 0·26	*	*	*	*	* *
	a Valencia	54	29th, 30th	33	28th	50·7	38·6	44·7	− 2·2	33	10	4	1·50	+ 0·12	5·6	− 7·2	10	−13	Valencia.
	a Roche's Point ..	51	30th, 2nd	34	29th, 30th	48·3	38·4	43·4	− 2·8	25	10	5	0·74	− 0·36	4·3	—	8	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	53	29th, 2nd	39	27th, 28th	50·6	43·3	47·0	− 2·1	35	9	4	0·63	− 0·23	18·7	+ 3·8	32	+ 7	Scilly.
	a Jersey, St. Aubins ..	52	2nd	34	27th	48·9	40·7	44·8	− 2·6	25	4	3	0·43	− 0·49	11·5	− 4·5	20	− 8	St. Heliers.
	a Guernsey	54	29th	38	27th	49·8	43·2	46·5	− 1·2	32	0	2	0·42	− 0·60	7·8	− 4·3	13	− 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 11·3 hrs.* (− *2·1 hrs.*), *20* % (− *4* %); *Bournemouth, 13·0 hrs., 22* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	40·2	—
0. — —				
0. — —				
1. Aberdeen	—	—	—	43·8
1. Crathes	1	30	39·3	42·7
1. Balmoral	6	24	—	—
1. Marchmont	2	25	38·3	—
2. Cockle Park	3	26	38·1	42·6
2. Durham	2	27	—	—
2. York	—	—	41·8	46·7
2. Hull	3	25	40·6	47·0
2. Lincoln	—	—	39·3	46·1
2. Rauceby	2	22	40·7	48·0
3. Norwich	4	23	—	—
3. Yarmouth	—	—	41·3	47·1
3. Lowestoft	1	28	42·3	46·9
3. Cambridge	3	23	41·0	47·3
3. Clacton-on-Sea	—	—	43·7	48·8
3. Southend	3	28	43·4	—
3. Tottenham	4	26	—	49·1
4. Harrogate	4	27	40·6	44·1
4. Huddersfield	3	27	39·6	46·0
4. Buxton	4	24	39·1	46·5
4. Sheffield	3	28	40·6	46·5
4. Nottingham	5	28	39·5	44·9
4. Birmingham	5	24	41·7	47·9
4. Oxford	4	25	—	—
4. Hereford	5	24	—	—
4. Cirencester	3	25	41·5	46·9
4. Bath	—	—	42·0	47·5
5. Margate	—	—	43·1	47·6
5. Greenwich	4	24	—	—
5. Westminster	4	27	—	—
5. Kew	5	22	40·8	48·1
5. Canterbury	1	28	41·8	44·3
5. Tunbridge Wells	4	23	41·9	—
5. Wisley	5	19	41·0	47·4
5. Worthing	5	25	42·9	49·7
5. Portsmouth	4	24	42·4	49·0
6. Glasgow	1	30	—	—
6. Rothesay	—	—	—	45·0
6. Colmonell	1	28	—	—
6. Dumfries	2	27	39·5	44·2
6. Douglas	0	33	—	—
7. Aspatria	1	24	39·6	45·8
7. Newton Rigg	5	27	40·4	44·6
7. Burnley	3	24	39·6	45·4
7. Southport	2	25	38·9	44·1
7. Manchester City	0	32	40·6	47·3
7. Bettws-y-Coed	1	29	41·3	46·7
8. Llangammarch Wells	5	17	42·3	48·4
8. Cardiff	3	23	40·6	47·3
8. Clifton	5	25	—	—
8. Plymouth	3	21	43·0	—
9. Armagh	1	22	41·5	46·0
9. Markree	5	24	42·1	47·9
10. Dublin, Trin. Coll.	5	22	42·7	46·9
11. Guernsey, Brooklyn	1	26	46·7	51·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	46	46	46·0
	Kirkwall	40	40	40·0
	Wick	—	—	—
SCOTLAND E.	Cromarty	43	41	42·1
	Pennan Bay	45	43	44·3
	Aberdeen, Cove Bay	46	46	46·0
ENGLAND, N.E.	Burnmouth, Berwick	44	42	42·9
	Scarborough	45	41	43·3
ENGLAND, E.	Shipwash Lightship	48	45	46·4
	Margate‡	46	45	45·6
ENGLAND, S.E.	Eastbourne‡	47	46	46·6
SCOTLAND, W.	Lamlash	48	45	46·3
	Ballantrae	42	40	40·9
ENGLAND, N.W.	Port Erin	50	44	48·0
ENGLAND, S.W.	Newquay	49	48	48·2
	Scilly	50	48	48·3
	Plymouth‡	49	48	48·3
	Salcombe	50	46	47·3
IRELAND, N.W.	Sheephaven	46	45	45·1
	Teelin	47	42	44·9
IRELAND, S.W.	Cleggan	48	40	43·7
	Seafield	48	43	45·2
IRELAND, E.		—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤇ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

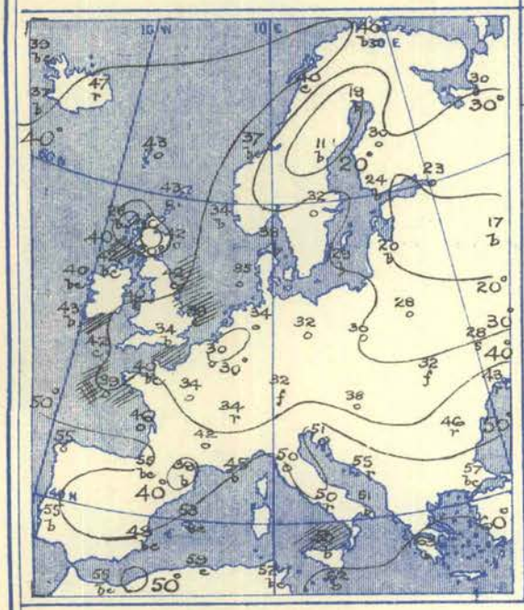
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 26th November, 1911.

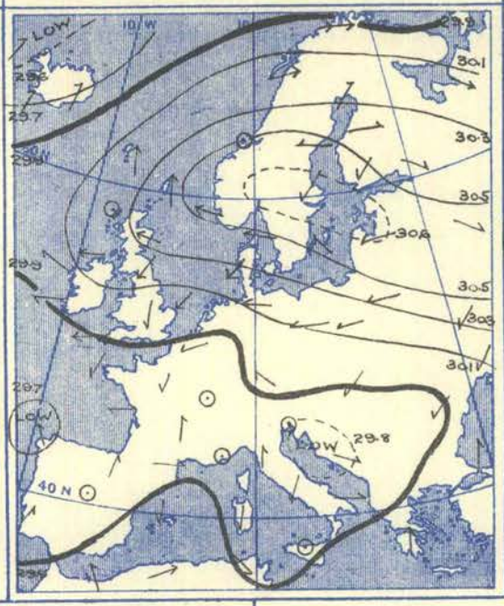
Temperature and Weather.

7 a.m.

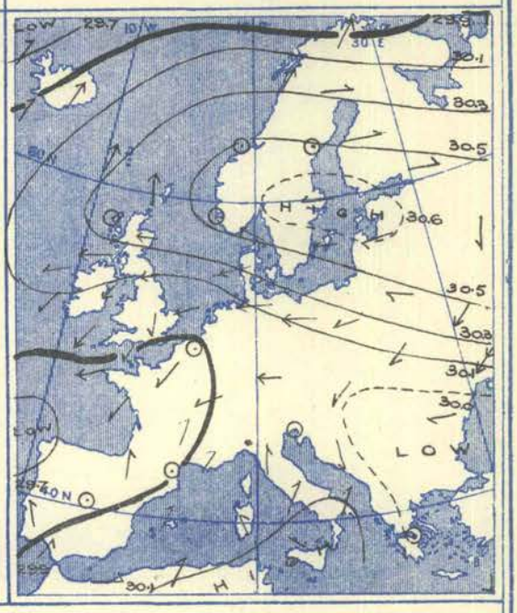


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast generally, with rain at Leith, a few French, Spanish and Italian stations, and also at Bucharest and Odessa, and snow at Frankfort and Kieff. Rain later over England, and snow or rain in places over a wide area on the Continent; as much as 1·0 in. at Athens.

Temperature fallen in most regions. Morning readings ranging from above 60° at a few stations in the extreme south to below 40° generally, and to below 30° in the north-east of Scotland and the Hebrides, and to below 20° in central Russia and the north of Sweden. Maxima about 40° in various parts of England, and below 35° at Nairn and at many stations in the central countries. Thermometer rising above 60° very generally in the south, and nearly touching 70° in places.

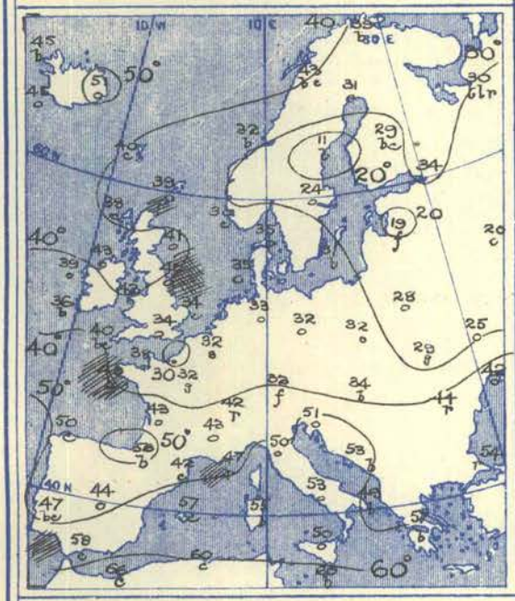
Wind in morning anticyclonic in all the northern regions, cyclonic in the South and South-West. Easterly current strong to a gale on the Baltic, and fresh to high on the North Sea; a strong breeze to a gale from South-West or West prevailing in the extreme north of Scandinavia. Light to moderate breezes general elsewhere. A decrease in force taking place by evening over the Baltic and North Sea regions.

Barometer in morning below 29·7 in. in a depression of little intensity centred off the north-west of Spain, and below 29·8 in. in another over Dalmatia and Bosnia. Above 30·6 in. in a large anticyclonic system having its maximum near Stockholm. Below 29·6 in. between Iceland and Greenland. No important change later in day in the general situation, but a shallow depression developing in the north of France and the south-east of England, and subsequently moving in a northerly direction.

Monday, 27th November, 1911.

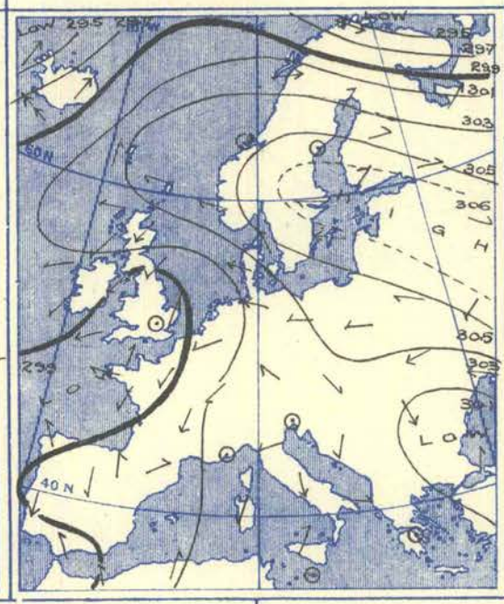
Temperature and Weather.

7 a.m.

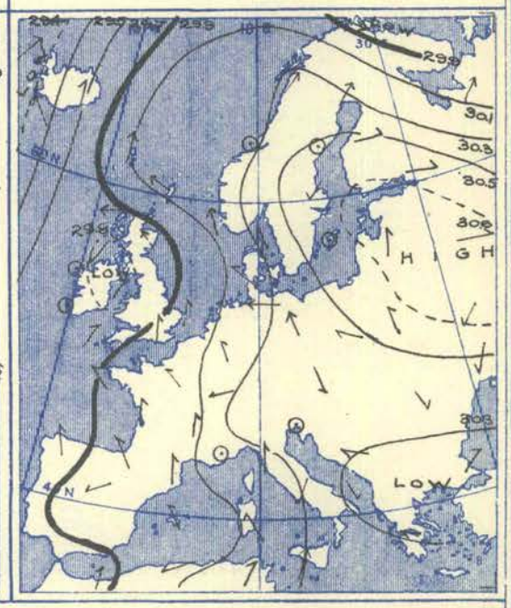


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast very generally in these Islands and their neighbourhood, with rain or snow in several places. Cloudy or overcast in most other regions, with rain at Belfort, Nice, San Fernando, and some stations in the south-east of Europe; snow at Lemburg, and a thunderstorm at Archangel. Fine in Greece, Malta and Algeria. Rain, sleet, or snow falling later in most parts of the United Kingdom, France, the Spanish Peninsula, and some other regions of the Continent; 0·7 in. at Constantinople, and 0·9 in. at Gibraltar.

Temperature showing no general change; fallen over Russia. Morning readings 60° at Malta and Algiers, and as high as 66° at Nemours; below 35° in various parts of Ireland, England, France, and the Netherlands; below 32° over a large area in Russia and Sweden, and as low as 11° at Hernösand. Remaining below 40° during day in some parts of Great Britain and also in the north-east of France, Holland, Germany, and Austria; rising to above 70° in Algeria, and to above 65° in the extreme south of Europe.

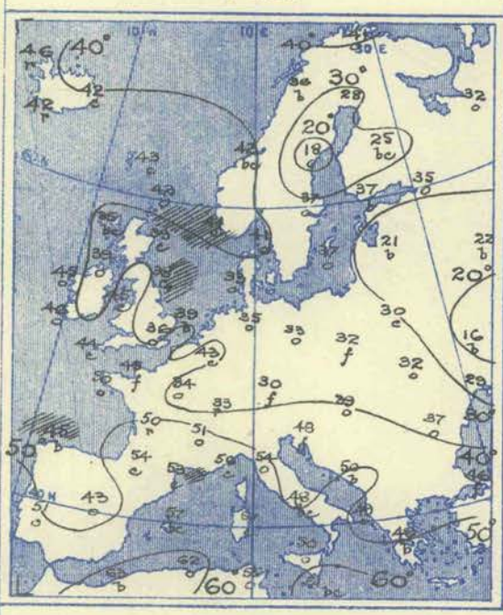
Wind in morning cyclonic in the United Kingdom and France, and also in south-eastern Europe, anticyclonic in the north and north-east. Easterly current fresh or strong in Denmark and on the east coast of Scotland, and that from the Westward strong to a gale in the far north of Scandinavia. A fresh breeze to a strong gale from some Southerly points prevailing in Iceland; Southerly current becoming more general in England by evening, but no important change occurring.

Barometer in morning above 30·6 in. in the central portion of an anticyclone extending from Russia to Sweden. Below 29·9 in. in a small disturbance over England, and lower in larger depressions in the South-West and North-West of our area. English depression moving North-North-Westward during day, and increasing somewhat in depth. High pressure system receding slowly in a South-Easterly direction. Barometer falling in Iceland and on the ocean between that island and the Azores.

Tuesday, 28th November, 1911.

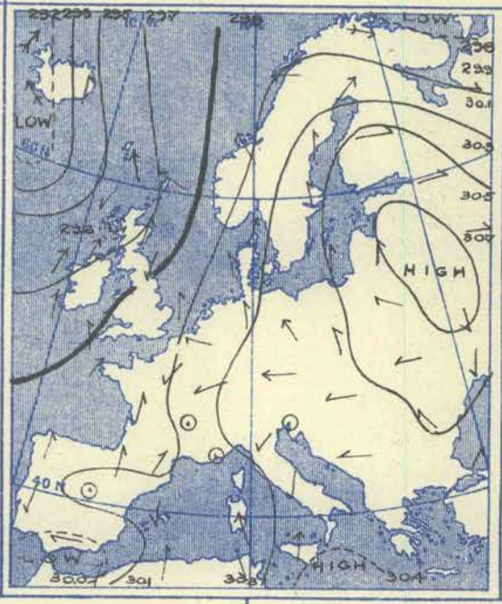
Temperature and Weather.

7 a.m.

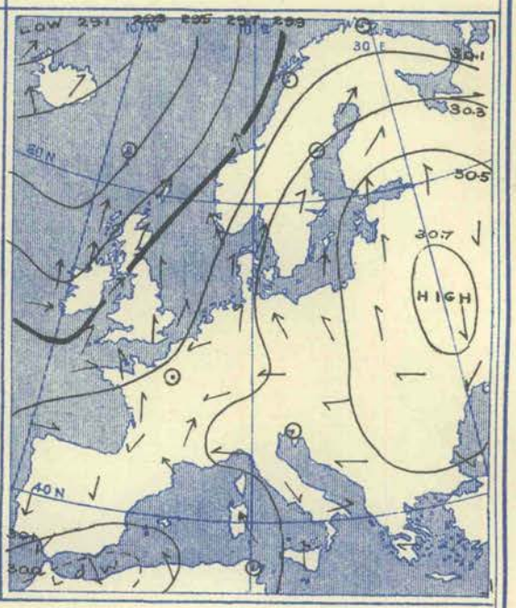


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to overcast in most parts of these Islands, but rainy or showery at Castlebay, and some stations in the south-west. Rain falling in the north of Italy and the east of France, and also at Karlstad. A good deal of cloud prevailing over our area generally. Some rain later in many parts of the United Kingdom and in a few patches on the Continent.

Temperature risen in most regions, but changes rather irregular. Morning readings ranging from 63° at Oran, 61° at Malta, and nearly 60° in some other southern localities, to below 32° over a large area in Russia and in the northern half of Sweden; as low as 16° at Kieff, and 14° at Kharkoff. Maxima during day 50° or very little below, over Ireland and England; below 40° at many places in the central countries of the Continent, and not above 50° at Constantinople. Thermometer rising to 82° at Nemours, to 72° at Oran, and to between 65° and 70° at several other southern stations.

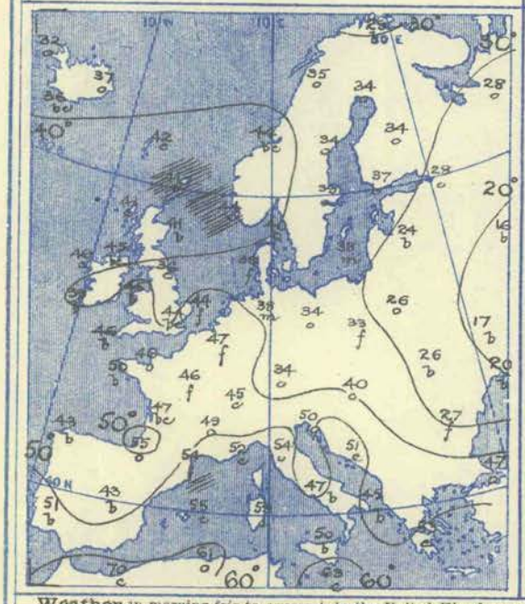
Wind in morning between South and South-West over our Islands, and light to moderate in force. Strong to a gale from the Southward in Norway, and also in Iceland. A gale from West at Vardö. Light or moderate breezes from various points prevailing over southern Europe and the Mediterranean. Wind subsiding in Iceland and at Vardö by evening, but continuing to blow a gale at Skudesnaes. Increasing to a fresh or strong breeze from South on our most north-western coasts.

Barometer in morning above 30·7 in. in a large high pressure area, having its maximum over Russia; below 29·8 in. in a depression on the Atlantic west of the Azores, and below 29·2 in. off the south of Iceland. Latter disturbance undergoing considerable modification in form later, and moving eastward; southern depression travelling in a north-westerly direction. Anticyclonic system maintaining its position with very little alteration.

Wednesday, 29th November, 1911.

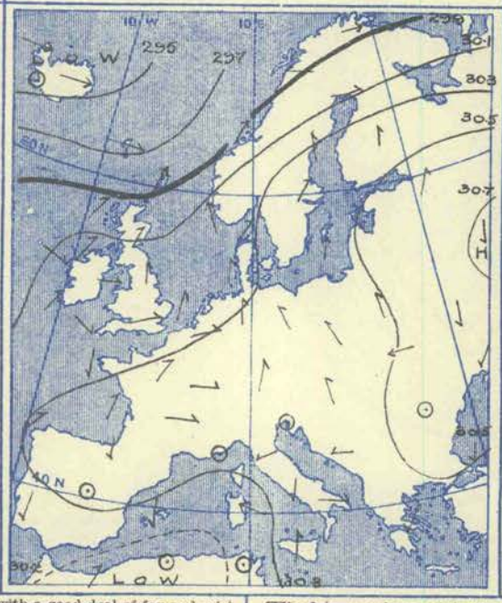
Temperature and Weather.

7 a.m.

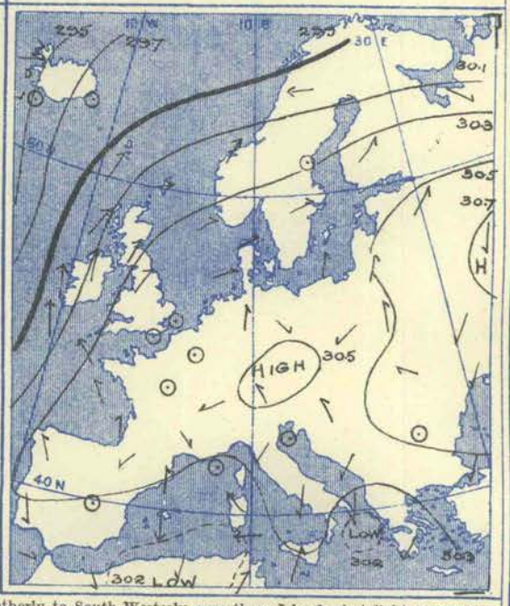


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to overcast in the United Kingdom, with a good deal of fog and mist over England. Fog also very prevalent in France, the Low Countries, and central Europe, and much cloud over the northern half of our area, with rain in the north of Finland. Fine and bright on many shores of the Mediterranean, but overcast in Algeria. As much as 1·5 in. of rain later at Perpignan, 0·4 in. at Toulouse, and 0·5 in. in the south-west of Ireland.

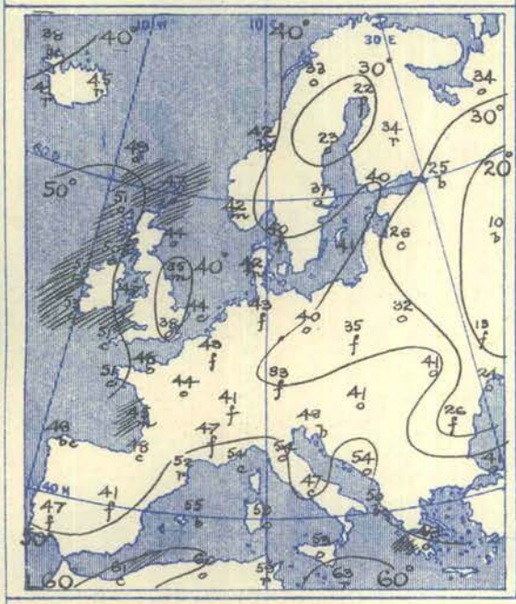
Temperature fallen in Russia and at several southern stations, risen generally elsewhere. Readings at 7 a.m. about 40° over a large part of these Islands, Norway, and central Europe; decreasing to below 20° in Russia, and increasing to above 60° at a few stations in the extreme south of our area. Thermometer marking 70° at Nemours. Maxima during day about 50° over the major portion of the United Kingdom and at many French stations, and not much lower in the Netherlands, but below 45° over a large area in central Europe, and only 48° at Constantinople. About 70° on the coast of Algeria and at Palermo.

Wind in morning mainly Southerly to South-Westerly over these Islands, but light from the Northward at several places in the west and south-west, and also at Brest; fresh or strong from South South-West in Norway and Shetland, and high from West at Thorshavn. Light to moderate breezes prevailing over the major portion of the Continent, and varying considerably in direction. A strong breeze to a very strong gale from the Southward general on the Atlantic, as far west as the thirtieth meridian. Becoming more generally Southerly by evening in the west of these Islands, and increasing in force in Ireland. Reaching gale force in the extreme north-west and north.

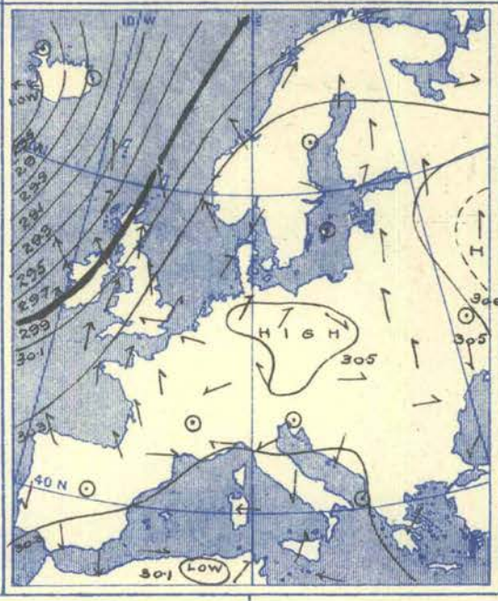
Barometer in morning above 30·7 in. in a large anticyclone, having its maximum over central Russia or further east, and relatively high thence to the Spanish Peninsula. Below 29·5 in. in a depression to the northward of Iceland, and below 28·5 in. in a very deep depression, having its minimum on the Atlantic in latitude 50°, and apparently between longitude 30° and 35°. No material alteration occurring in the general situation later in day. Atlantic depression extending slowly westward, and apparently moving in a north-easterly direction

Thursday, 30th November, 1911.

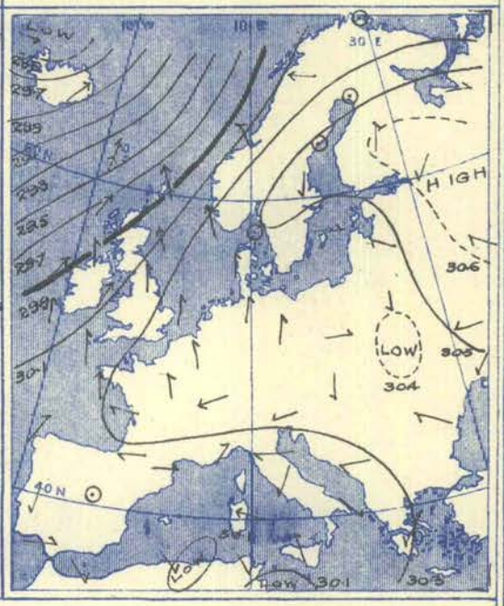
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fine and bright in a few southern regions, but mostly very cloudy to overcast. Fog or mist in North Germany, Denmark, and the Netherlands, and in some parts of France, and rain falling at Roche's Point, and at some isolated places on the Continent. Some rain later over a large portion of the United Kingdom, Germany, the Spanish Peninsula, and also at Perpignan, Palermo, and Malta. Snow or rain in Finland.

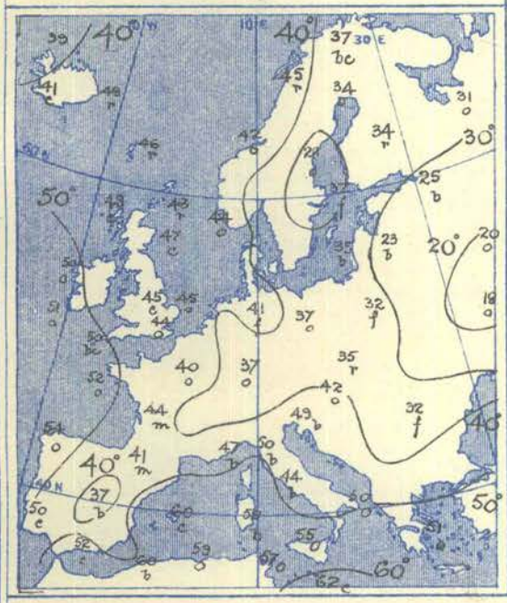
Temperature risen in the west and north of these Islands, and in Poland and North Germany; fallen in most other regions. Readings in morning above 50° in Ireland, but below 40° in the inland counties of England. Below 20° over large districts in Russia, and little above it in the north of Sweden; about 40° in central Europe and eastern France, and about 60° in the extreme south of our area. Maxima during day 50° or a little higher over a wide area in the United Kingdom and the west of France, and above 60° at several stations in the south of our area. Thermometer only rising to 32° at Bucharest.

Wind in morning mainly Southerly over these Islands and the nearer regions of the Continent; strong to a gale on our western and northern coasts, light or moderate elsewhere. Drawing into east and blowing a gale in the south-west of Iceland. Light or moderate breezes prevailing elsewhere; mainly anticyclonic except on the Mediterranean. Blowing a gale later on our extreme north and north-west coasts, and on the Atlantic as far west as the twenty-fifth meridian.

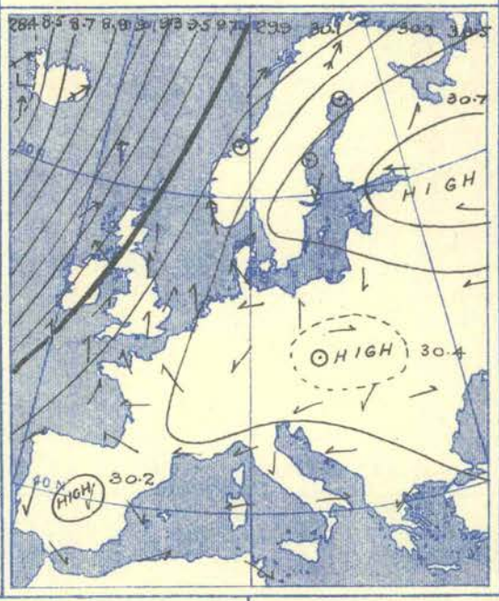
Barometer in morning below 28·5 in. in a very large cyclonic system, having its centre to the south-westward of Iceland; above 30·6 in. in an anticyclone over Russia, and relatively thence to the Azores. No important change later in the distribution of pressure as a whole, and little in the actual height of the barometer. Icelandic depression travelling away, but another system travelling towards that region on the Atlantic.

Friday, 1st December, 1911.

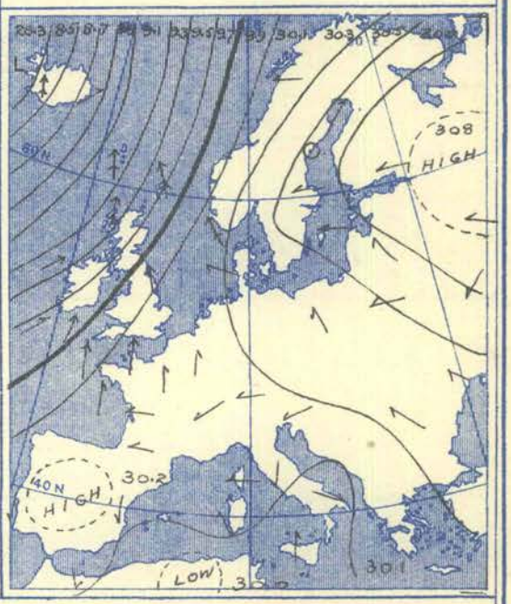
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning generally overcast or very cloudy over the northern half of our area, with rain at Bodö, Lerwick, some of our south-western stations and at Cracow. Mostly fair to bright in the south, but rainy at Palermo and at some places in Algeria. Rain experienced later over the greater part of the United Kingdom, in a few parts of northern Europe and at some Italian stations.

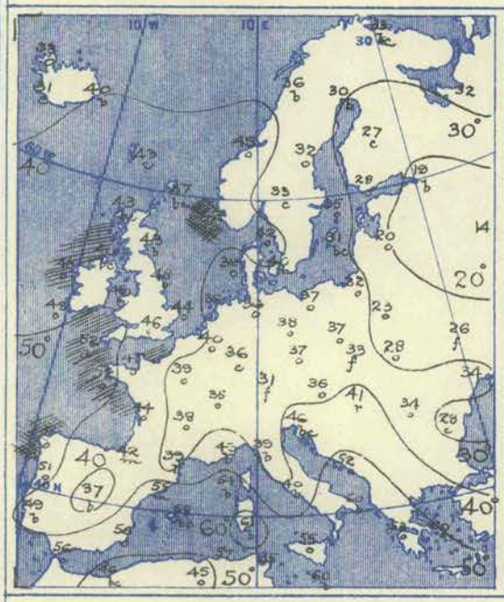
Temperature risen in Gt. Britain and Russia, fallen in most other regions. Readings in morning 62° at Malta, 60° at Palma, and above 55° at a few other southern stations; below 40° over the major portion of the Continent, and below 20° over a considerable area in Russia. Maxima during day about 50° at many stations in these Islands, but generally below that figure in France and the central countries and also in the north of Italy. Thermometer rising to 72° at Sfax and about 65° at some other southern stations.

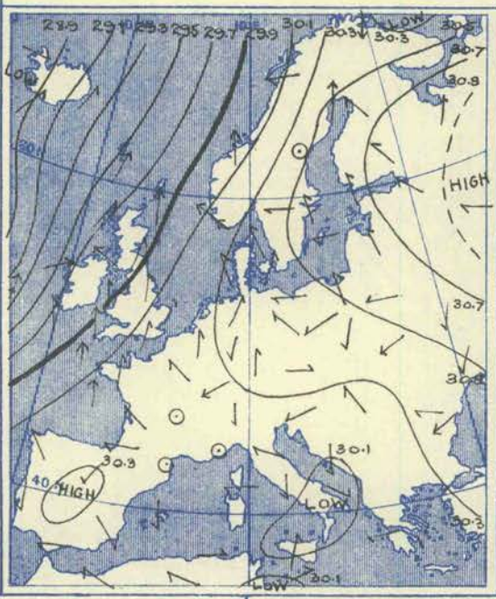
Wind in morning mainly Southerly over the western and north-western countries; fresh to strong in several localities, high at Blacksod Point and Thorshaven, and a gale at Skudesnaes and in Iceland, and also at Vardö. Gales and strong winds between Westerly and South-Westerly prevailing on the Atlantic as far west as the 30th meridian. No change in direction later, but force increasing to a gale on our extreme north-west and north coasts.

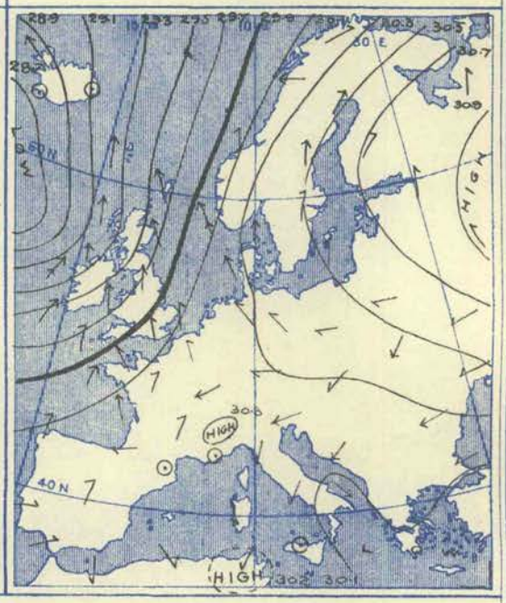
Barometer in morning above 30·7 in. in a very large anticyclone over the north-east of Europe, and relatively high thence to the most south-western countries. Below 28·4 in. in a deep cyclonic system having its minimum to the Westward of Iceland. Barometer continuing to rise within the anticyclone over Russia, but scarcely any change occurring in the general distribution of pressure. Gradient growing steeper in the north of these Islands.

Saturday, 2nd December, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to bright in a few places, mostly in the north or south of our area, but overcast generally. Rain at Scilly and Buda-Pesth, and snow at Bucharest and Archangel Some rain later throughout the United Kingdom and the north and north-west of France, as well as in Hungary and the south-east of the Continent; about 0·5 in. on the west and north coasts of Ireland.

Temperature fallen in most regions. Morning readings ranging from about 60° at a few stations in the far south to below 40° over the greater part of the Continent, and to below 20° over large districts in Russia. Rising later to a little above 50° in Brittany and most parts of the United Kingdom and to 60° or higher at several stations in the south of our area. Remaining below 40° over a large area in central Europe, and only touching 42° at Turin.

Wind in morning mainly Southerly over the western and northern countries, strong in some parts of these Islands, and blowing a gale on the south-west coast of Norway. Light breezes from various points prevailing in the south and east of our area. Increasing to a gale from the Southward on several parts of our western and northern coasts later, and gales from the West or South-West becoming very common on the Atlantic. Little change taking place on the Continent.

Barometer in morning above 30·8 in. in a large anticyclone having its maximum in Russia or Siberia; relatively high thence to the Spanish Peninsula and beyond. Below 28·5 in. in a very deep depression centred on the ocean some distance to the westward of Ireland. Pressure continuing to increase slowly within the high pressure system, and no material change occurring in the general distribution. Barometer falling in the north-west of these Islands, and gradient growing steeper over the Kingdom generally, and also over the North Sea.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E. 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1911.										Metres.	
1	December 1st, 11.35 a.m.	* Aberdeen.	Temperature Humidity .. Wind .. .	170°, 7·7	191°, 9·1	202°, 22·0						Lifting power 53 5 grammes. Observed for 4 minutes; two theodolites. Balloon entered Stratus bank after 4 minutes. Wind squally. Motion of balloon very irregular. at first.

* Observation with two Theodolites at Stations *A* and *B*.—*A* Woodside, 32.6 m. *B* King's College 35.4 m. distant 920 m., 15° from *A*.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites	—
Area of Surface (sq. metres) ..	—
Capacity of Balloon (cub. metres) ..	0·05
Length of Wire (metres)	—

South Kensington, London, S.W. *December 6th, 1911.* W. N. SHAW *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 49. FORTY-NINTH WEEK, SUNDAY, DECEMBER 3RD, TO SATURDAY, DECEMBER 9TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The general condition was again extremely unsettled, rain falling very frequently, with, however, considerable intervals of bright sunshine. Snow and sleet were experienced at times in the northern and north-eastern parts of the Kingdom. At Westbourne thunder, accompanied by hail, occurred on the 6th.

Temperature was below the normal generally, but about equal to it in the Midland Counties, England E. and S.E. and Scotland N. The highest of the maxima were recorded at most stations on the 9th, and ranged from 57° in England S.W. to 49° in Ireland N. The lowest of the minima occurred on rather irregular dates; at several stations on the 6th, but later in the period generally. They ranged from 21° in Scotland E., 24° in England S.E., and 25° in England S.W. to 30° in Scotland W. and to 35° in the English Channel. The lowest grass readings were 12° at Llangammarch Wells, 17° at Wisley, 19° at Balmoral, and 20° at Crathes, Kew, Tunbridge Wells, Newton Rigg and Dublin.

Mean Temperature of the Sea.—On many parts of the coast the water had about the same temperature as in the corresponding week of last year, but at Plymouth, Ballantrae and Kirkwall it was nearly 4° colder, and at Lerwick and Cromarty more than 2° warmer. The means for the week varied from 50° at Scilly, and 49° at Salcombe and Port Erin to about 42°·5 off the north-east of England, 41° at Ballantrae and 40° at Kirkwall.

Rainfall exceeded the average except in Scotland N., the excess being large in most districts. Heavy falls occurred on the 6th and 8th, over a very large area in the west and north, some stations measuring more than an inch on both days. At Colmonell 1·7 in. fell on the 6th and 1·2 in. on the 8th. At Arlington on the 8th, the figure was 1·6 in., at Torquay 1·4 in., and at Plymouth 1·3 in., while at Killarney on the 6th it was as much as 1·9 in.

Bright Sunshine was considerably above the normal in nearly all districts. The percentage of the possible duration ranged from 46 in the English Channel, 44 in England S.W., and 40 in the Midland Counties to 25 in England E., and to 24 in Scotland N.

Barometer and Wind.—Large depressions from the Atlantic continued to extend over the United Kingdom, producing a Southerly to South-Westerly type of conditions. Strong winds from some point between South and West were consequently very common, and on several occasions gales were experienced. The wind was, as a rule, of greater force on the west and south coasts than elsewhere, but at Aberdeen during the gale of Wednesday night there was a squall with the velocity of 65 miles an hour. Some of the disturbances assumed a "V"-shaped character in passing over these islands, the wind in their rear shifting temporarily to the North-Westward, and blowing with gale force from that quarter on some exposed parts of the western coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 396.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Heavy	Heavy	Very heavy	Very heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Very abundant	Very abundant	Abundant	Abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant	Abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1 week from Dec. 3rd, 1911.	Warmth ...	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 0	**0** * 1	**0** * 1	**0** * 0	**0** * 0	**0** * 1	**0** * 1	**0** * 0
	Rainfall ...	**0** * 0	**0** * 0	**0** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0
	Sunshine ...	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0	**1** * 0

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	**7** * 0	**8** * 1	**7** * 2	**7** * 1	**7** * 1	**6** * 1	**6** * 1	**7** * 2	**6** * 2	**7** * 2	**5** * 5	**5** * 3
	Rainfall ...	**4** * 5	**2** * 5	**3** * 5	**5** * 3	**4** * 5	**4** * 5	**5** * 4	**4** * 4	**4** * 5	**4** * 7	**3** * 7	**3** * 5
	Sunshine ...	**4** * 2	**7** * 3	**5** * 4	**3** * 3	**5** * 2	**4** * 3	**6** * 6	**6** * 3	**4** * 3	**3** * 3	**3** * 3	**2** * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	**4** * 1	**5** * 2	**7** * 1	**6** * 1	**6** * 1	**4** * 1	**5** * 3	**5** * 2	**4** * 2	**3** * 1	**6** * 3	**3** * 2
	Rainfall ...	**4** * 6	**3** * 5	**2** * 8	**2** * 3	**2** * 6	**3** * 4	**3** * 8	**3** * 7	**5** * 7	**3** * 7	**4** * 6	**3** * 6
	Sunshine ...	**6** * 3	**4** * 5	**1** * 5	**2** * 3	**1** * 5	**4** * 4	**5** * 3	**4** * 2	**4** * 3	**5** * 4	**4** * 3	**4** * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	**6** * 2	**7** * 2	**10** * 2	**10** * 2	**10** * 2	**10** * 2	**8** * 2	**9** * 2	**10** * 2	**9** * 2	**9** * 1	**10** * 1
	Rainfall ...	**5** * 6	**1** * 7	**2** * 8	**2** * 8	**1** * 7	**1** * 8	**2** * 4	**2** * 7	**2** * 6	**2** * 6	**4** * 8	**3** * 5
	Sunshine ...	**7** * 3	**6** * 4	**9** * 3	**9** * 3	**9** * 3	**9** * 2	**6** * 4	**10** * 3	**10** * 2	**8** * 3	**8** * 2	**9** * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	**1** * 6	**2** * 4	**4** * 2	**4** * 2	**4** * 2	**4** * 4	**2** * 5	**2** * 4	**4** * 3	**2** * 4	**2** * 5	**4** * 4
	Rainfall ...	**5** * 6	**4** * 3	**4** * 3	**5** * 2	**3** * 3	**4** * 4	**2** * 6	**5** * 6	**5** * 5	**2** * 5	**6** * 4	**6** * 2
	Sunshine ...	**5** * 2	**5** * 2	**5** * 4	**6** * 3	**4** * 3	**7** * 2	**3** * 3	**7** * 3	**6** * 3	**4** * 2	**3** * 4	**2** * 5

10236 / 450 Wy. & S., Ltd. 12—11.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-NINTH WEEK—December 3rd to December 9th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	26	44·1	34·8	39·6	− 0·2	6	− 4	28	0	6	+ 1	1·36	−0·18	11	+ 6	24	+12
Eastern																		
1. SCOTLAND, EAST	52	21	42·6	31·9	37·5	− 0·9	2	− 7	38	+ 4	5	0	0·81	+0·03	16	+ 8	33	+17
2. ENGLAND, N.E.	52	29	43·4	34·5	39·2	− 0·9	4	− 7	29	+ 3	5	+ 1	0·78	+0·23	14	+ 5	27	+ 9
3. ENGLAND, EAST	55	27	45·2	34·2	39·9	+ 0·1	9	− 4	31	+ 1	7	+ 2	1·00	+0·46	14	+ 3	25	+ 6
4. MIDLAND COUNTIES	54	26	45·2	33·3	39·5	− 0·1	9	− 4	34	+ 3	6	+ 2	1·13	+0·53	21	+ 13	40	+23
5. ENGLAND, S.E.	54	24	47·5	35·6	41·8	+ 0·1	15	− 4	28	+ 7	7	+ 2	1·69	+0·98	20	+ 10	37	+18
Western																		
6 SCOTLAND, WEST	55	30	44·1	35·0	39·7	− 1·9	6	− 9	27	+ 8	7	+ 2	2·44	+1·09	15	+ 7	28	+14
7. ENGLAND, N.W.	53	29	45·1	36·3	40·9	− 0·6	9	− 6	24	+ 5	6	+ 1	1·70	+0·80	17	+ 9	32	+17
8. ENGLAND, S.W.	57	25	47·8	37·2	42·7	− 0·4	25	+ 1	13	− 2	6	+ 1	2·39	+1·23	24	+ 13	44	+24
9 IRELAND, NORTH	49	29	44·9	34·3	39·8	− 1·7	8	− 7	30	+10	6	0	1·66	+0·75	16	+ 7	31	+13
10. IRELAND, SOUTH	51	26	46·7	34·2	40·7	− 2·6	13	− 12	32	+17	7	+ 2	2·43	+1·42	16	+ 5	30	+ 9
11. ENGLISH CHANNEL	54	35	50·5	41·9	46·4	− 0·4	31	− 6	0	− 3	7	+ 2	1·93	+0·87	26	+ 13	46	+23

THE SEASON (Winter).—Aggregates, &c., for the Period of 1 Week, December 3rd to December 9th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	52	26	*	*	*	*	6	− 4	28	0	6	+ 1	1·36	−0·18	11	+ 6	24	+12
Eastern																		
1. SCOTLAND, EAST	52	21	*	*	*	*	2	− 7	38	+ 4	5	0	0·81	+0·03	16	+ 8	33	+17
2. ENGLAND, N.E.	52	29	*	*	*	*	4	− 7	29	+ 3	5	+ 1	0·78	+0·23	14	+ 5	27	+ 9
3. ENGLAND, EAST	55	27	*	*	*	*	9	− 4	31	+ 1	7	+ 2	1·00	+0·46	14	+ 3	25	+ 6
4. MIDLAND COUNTIES	54	26	*	*	*	*	9	− 4	34	+ 3	6	+ 2	1·13	+0·53	21	+ 13	40	+23
5. ENGLAND, S.E.	54	24	*	*	*	*	15	− 4	28	+ 7	7	+ 2	1·69	+0·98	20	+ 10	37	+18
Western																		
6 SCOTLAND, WEST	55	30	*	*	*	*	6	− 9	27	+ 8	7	+ 2	2·44	+1·09	15	+ 7	28	+14
7. ENGLAND, N.W.	53	29	*	*	*	*	9	− 6	24	+ 5	6	+ 1	1·70	+0·80	17	+ 9	32	+17
8. ENGLAND, S.W.	57	25	*	*	*	*	25	+ 1	13	− 2	6	+ 1	2·39	+1·23	24	+ 13	44	+24
9. IRELAND, NORTH	49	29	*	*	*	*	8	− 7	30	+10	6	0	1·66	+0·75	16	+ 7	31	+13
10. IRELAND, SOUTH	51	26	*	*	*	*	13	− 12	32	+17	7	+ 2	2·43	+1·42	16	+ 5	30	+ 9
11. ENGLISH CHANNEL	54	35	*	*	*	*	31	− 6	0	− 3	7	+ 2	1·93	+0·87	26	+ 13	46	+23

THE YEAR.—Aggregates, &c., for the Period of 49 Weeks, January 1st to December 9th, 1911.

DISTRICTS.	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av.	Above 42°	Difference from Av.	Below 42°	Difference from Av.	Number of Rain-Days.	Diff. from Av.	Total Fall.	Difference from Average	Hours recorded.	Diff. from Av.	Percentage of Possible Duration.	Diff. from Av.
0. SCOTLAND, NORTH	84	14	*	*	*	*	2210	+122	597	−105	208	−23	46·89	−1·66	1246	+149	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2462	+130	708	− 98	183	− 8	26·06	−2·85	1458	+147	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3039	+422	474	−112	162	−12	21·01	−2·29	1570	+148	37	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3536	+515	504	−147	158	−10	20·32	−2·00	1776	+228	42	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	3354	+421	548	−134	144	−22	18·32	−6·40	1568	+190	37	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3632	+346	449	− 20	142	−19	23·51	−1·80	1908	+341	45	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2798	+249	479	− 47	181	−19	39·33	−5·38	1528	+187	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3129	+339	389	− 78	163	−22	30·02	−2·65	1661	+299	39	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3497	+360	353	− 14	159	−25	31·03	−4·71	1813	+282	43	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2867	+203	406	− 30	176	−42	29·46	−6·32	1500	+244	35	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3360	+274	394	+ 60	192	− 2	34·62	−2·47	1599	+183	38	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	4044	+344	137	+ 21	166	−31	29·11	−1·11	2002	+144	47	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*49*	*3rd*	*35*	*4th*	*45·5*	*38·6*	*42·2*	—	*16*	*10*	7	*0·93*	—	*9·4*	—	*23*	—	*Baltasound.*
	a Lerwick	48	3rd	38	8th	45·7	40·9	43·4	+ 2·1	14	3	7	1·62	—	16·0	+10·4	36	+24	Deerness.
	a Stornoway	48	5th	33	7th	44·0	36·1	40·2	− 0·9	6	23	7	1·14	− 0·23	7·5	+ 0·4	16	+ 1	Stornoway.
	a *Castlebay, Barra Isd.*	*48*	*4th, 5th*	*36*	*7th*	*46·1*	*39·1*	*42·7*	− *0·6*	*17*	*8*	*7*	*1·22*	—	*7·5*	—	*16*	—	*Castlebay.*
b, Mainland.	a Wick	47	5th	31	5th	44·1	35·6	40·0	− 0·2	6	25	3	0·61	− 0·05	*	*	*	*	*
	p Strathpeffer.. ..	49	3rd	26	4th	43·5	31·5	37·7	− 1·0	4	39	5	0·47	− 0·24	12·9	+ 6·2	27	+13	Strathpeffer.
	p Glencarron .. S	48	3rd	26	4th	43·4	32·9	38·4	− 0·3	4	35	6	2·06	− 0·17	*	*	*	*	*
	p Fort Augustus S	50	3rd	26	4th	44·1	31·9	38·2	− 1·5	6	38	7	1·40	+ 0·23	7·2	+ 5·3	15	+11	Fort Augustus.
	p Fort William S	52	3rd	30	4th	44·0	34·7	39·5	− 1·9	6	28	7	2·23	+ 0·13	*	*	*	*	*
1. SCOTLAND, E. ..	p Gordon Castle S	52	3rd	30	4th	43·8	33·6	38·9	− 1·0	5	32	4	0·30	− 0·26	*16·6*	—	*35*	—	*Gordon Castle.*
	a Nairn	48	5th	26	5th	42·0	30·9	36·7	− 2·4	0	37	2	0·07	− 0·41	23·7	—	50	—	Nairn.
	a Aberdeen	47	3rd, 5th	30	9th	44·4	34·3	39·6	− 0·4	7	30	7	1·08	+ 0·41	13·6	+ 3·7	29	+ 8	Aberdeen.
	a Balmoral .. S	46	3, 5, 7th	21	8th	44·1	27·1	35·9	− 0·3	6	56	5	1·73	+ 0·93	13·6	—	28	—	Crathes S.
	p Crieff .. .. S	50	3rd	29	4th, 5th	41·3	31·0	36·4	− 2·8	0	39	6	1·35	+ 0·37	15·5	—	32	—	Balruddery.
	a Leith	49	3rd	33	9th	43·6	36·4	40·1	− 1·0	4	21	4	0·30	− 0·14	*	*	*	*	*
	p West Linton.. S	49	3rd	25	4th	40·4	30·1	35·5	− 2·6	0	46	7	0·79	—	*13·2*	—	*27*	—	*West Linton.*
	p Marchmont .. S	46	3rd	29	5th	41·3	31·6	36·6	− 2·0	0	38	5	0·85	+ 0·23	13·8	+ 5·4	28	+11	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	48	3rd	29	4th	43·2	32·4	38·0	− 2·4	3	36	4	0·50	− 0·17	17·0	—	34	—	Cockle Park.
	a Shields	49	3rd	32	8th	44·0	34·6	39·5	− 1·6	6	29	5	0·47	+ 0·03	*6·9*	+ *1·3*	*14*	+ *3*	*Newcastle.*
	p Durham	47	3rd	31	4, 5, 8th	41·8	33·0	37·6	− 1·6	0	31	4	0·79	+ 0·34	16·7	+ 6·7	33	+13	Durham.
	p Rounton .. M	48	3rd	31	7th, 8th	42·1	33·5	38·0	− 1·2	0	31	4	1·05	+ 0·64	*	*	*	*	*
	p Scarborough.. M	48	3rd	32	9th	43·0	35·6	39·5	− 2·0	3	25	5	0·98	+ 0·45	16·9	—	33	—	Scarborough.
	p York	51	3rd	31	8th	43·6	34·7	39·3	− 1·2	4	28	4	0·77	+ 0·33	7·1	+ 0·8	14	+ 2	York.
b, South.	a Spurn Head	48	3rd	33	8th	44·0	37·1	40·7	− 1·1	6	20	5	0·90	+ 0·49	*	*	*	*	*
	a Lincoln	50	3rd	30	8th	44·5	34·4	39·7	− 0·3	7	30	5	0·78	+ 0·35	12·4	—	23	—	Skegness.
	a Fulbeck	52	3rd	31	8th	44·5	35·6	40·2	+ 1·1	7	25	5	0·77	+ 0·34	15·1	—	29	—	Rauceby.
															11·3	—	*21*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	50	3rd	30	8th	44·9	33·1	39·2	− 0·3	8	35	7	0·81	—	11·4	—	22	—	Cromer.
	p Hillington .. M	51	3rd	27	6th, 8th	43·3	32·1	37·9	− 1·6	4	37	7	1·19	+ 0·64	11·6	+ 1·6	22	+ 3	Hillington.
	a Yarmouth .. —	49	3rd	31	8th	45·3	35·9	40·8	− 0·1	9	25	6	0·84	+ 0·34	12·4	—	23	—	Yarmouth.
	a Norwich	51	3rd	30	6th, 8th	44·4	33·4	39·1	− 1·1	7	33	6	0·91	—	*	*	*	*	*
	p Geldeston	51	3rd	30	8th	45·8	34·5	40·4	− 0·6	11	31	7	0·89	+ 0·40	11·9	+ 0·2	22	0	Geldeston.
	p Cambridge	55	3rd	27	6th, 8th	46·3	32·5	39·7	− 0·7	12	38	6	0·92	+ 0·53	16·5	+ 6·5	31	+12	Cambridge.
b, South.	a *Felixstowe* ..	*48*	*3rd*	*32*	*6th, 8th*	*45·3*	*35·9*	*40·8*	− *0·8*	*9*	*25*	*7*	*0·87*	—	*17·0*	—	*32*	—	*Felixstowe.*
	a Clacton-on-Sea ..	48	3rd	32	8th	45·7	36·0	41·0	− 0·5	10	25	7	0·65	—	15·9	—	29	—	Clacton.
	a Rothamsted ..	54	3rd	27	6th, 8th	46·4	32·7	39·8	− 0·4	12	37	7	1·55	+ 0·98	21·2	+10·8	39	+20	Rothamsted.
	a *Shoeburyness* —	*51*	*3rd*	*34*	*8th*	*46·9*	*37·3*	*42·3*	+ *0·3*	*22*	*13*	*6*	*0·62*	+ *0·26*	*15·4*	—	*28*	—	*Southend.*
	p Tottenham	54	3rd	31	6th, 8th	45·7	37·2	41·6	+ 0·4	10	20	7	1·25	—	7·4	—	14	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	48	3rd	32	5, 8, 9th	42·0	34·0	38·2	− 1·1	0	27	4	1·26	+ 0·66	11·8	—	23	—	Harrogate.
	a Bawtry	52	3rd	30	6th, 8th	44·4	33·0	38·9	− 0·8	7	35	5	1·00	+ 0·56	14·6	+ 6·8	28	+13	Worksop.
	p *Buxton* .. M	*47*	*3rd*	*28*	*6th*	*42·3*	*31·1*	*36·9*	− *1·0*	*1*	*40*	*6*	*2·52*	+ *1·39*	*22·5*	—	*43*	—	*Buxton.*
	a Nottingham ..	51	3rd	26	9th	45·4	31·4	38·7	− 1·5	10	42	5	0·58	+ 0·12	17·2	—	33	—	Nottingham.
	p Birmingham, Edgbsn	49	3rd	32	8th	43·8	35·5	39·8	− 0·2	5	25	6	0·93	+ 0·39	24·1	—	44	—	Birmingham.
	a Raunds .. M	53	3rd	27	8th	45·8	32·1	39·2	− 0·7	11	39	6	1·02	—	*	*	*	*	*
	a Oxford	53	3rd	30	3th, 7th	46·7	35·3	41·2	+ 0·5	13	28	6	1·13	+ 0·63	26·7	+16·7	49	+30	Oxford.
b, West.	a Cheadle .. M	49	3rd	30	6, 7, 9th	42·9	32·9	38·1	− 1·0	3	34	7	0·94	+ 0·29	22·3	—	42	—	Sheffield.
	p Shrewsbury ..	52	3rd	28	7th	46·9	33·1	40·3	− 1·8	14	37	5	0·56	—	*	*	*	*	*
	a Hereford .. M	49	3rd	29	8th	45·5	33·6	39·8	− 0·7	10	34	5	2·19	+ 1·65	*	*	*	*	*
	a Cirencester	50	3rd	27	6, 7, 8th	44·8	31·8	38·6	− 0·9	8	40	7	1·44	+ 0·81	24·6	+14·6	45	+27	Cirencester.
	a Bath	54	3rd	26	6th	48·9	33·3	41·4	− 0·2	19	37	5	1·37	+ 0·68	29·7	—	54	—	Bath.
															16·9	—	*31*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	53	3rd	29	6th, 8th	46·5	35·3	41·1	− 0·3	13	28	6	1·28	+ 0·81	20·4	+10·6	37	+19	Kew.
	a Marlborough ..	50	3rd	24	6th	46·2	32·0	39·4	− 0·5	12	40	6	1·53	+ 0·85	22·4	+14·2	41	+26	Marlborough.
	a Margate	51	3rd	33	8th	47·0	37·7	42·5	− 0·2	22	12	7	1·24	+ 0·76	13·8	+ 2·5	25	+ 5	Margate.
	a Wisley, Surrey ..	53	3rd	29	8th	47·6	35·7	41·9	− 0·1	16	28	7	1·68	—	21·2	—	39	—	Wisley.
	a Swarraton .. M	51	3rd	25	6th, 8th	46·4	31·1	39·1	− 1·4	12	44	6	2·15	+ 1·45	20·9	—	37	—	Worthing.
	a Tunbridge Wells M	51	3rd	29	8th	46·2	34·2	40·4	− 0·5	12	32	7	1·86	+ 1·16	19·4	+ 8·1	35	+15	Tunbridge Wells.
	a Dungeness	51	3rd	32	6, 7, 8th	49·0	36·7	43·1	− 0·1	30	15	6	1·72	+ 1·19	14·7	—	27	—	Littlestone.
	p Hastings	50	3rd	32	8th	47·8	38·2	43·2	+ 0·3	24	11	7	1·52	+ 0·86	17·9	+ 4·4	32	+ 8	*Hastings.*
	p Southampton ..	54	3rd	30	6th, 8th	48·2	34·7	41·7	− 1·0	17	32	6	2·45	+ 1·76	25·7	+14·3	47	+26	Southampton.
	a Ventnor	54	3rd	37	9th	50·1	40·4	45·4	+ 0·2	31	4	7	1·51	+ 0·79	25·3	+13·4	45	+24	Ventnor.
															17·0	+ 4·6	30	+ 8	Eastbourne.
LONDON .. —	a *Westminster* ..	*54*	*3rd*	*30*	*8th*	*48·6*	*36·9*	*43·0*	+ *1·5*	*28*	*14*	*7*	*0·97*	+ *0·49*	*12·0*	+ *8·5*	*22*	+ *15*	*Westminster.*
	a *Greenwich*	*54*	*3rd*	*29*	*8th*	*47·3*	*34·4*	*41·1*	− *0·1*	*15*	*32*	*7*	*1·01*	+ *0·54*	*18·6*	+*10·4*	*34*	+*19*	*Greenwich.*
6. a, SCOTLAND. W.	a Poltalloch .. S	45	4th, 5th	31	4th	42·6	33·6	38·3	− 2·9	2	31	7	3·31	+ 2·06	*	*	*	*	*
	p Glasgow	51	3rd	33	9th	43·1	36·5	39·9	− 0·9	3	21	6	1·40	+ 0·51	7·8	+ 4·5	16	+ 9	Glasgow.
	p Rothesay .. S	50	3rd	33	4th	45·1	35·9	40·7	− 1·0	9	25	7	2·64	+ 1·52	*	*	*	*	*
	a Kilmarnock	46	4th, 5th	32	4th, 9th	43·4	34·6	39·2	− 2·1	4	28	7	1·63	—	*12·0*	—	*24*	—	*Kilmarnock.*
	a Colmonell .. S	47	3rd	32	4th	43·9	34·9	39·6	− 2·0	5	28	7	3·78	+ 2·60	*	*	*	*	*
	p Dumfries .. S	55	3rd	31	4th, 5th	44·3	34·7	39·7	− 0·7	6	29	7	1·98	+ 1·08	*10·9*	—	*21*	—	*Dumfries.*
	p Cally, Gatehouse S	47	3rd	30	4, 6, 7, 8, 9	44·3	31·8	38·3	− 2·1	6	39	6	2·65	+ 1·42	*	*	*	*	*
b, ISLE OF MAN ..	p Douglas	50	3rd	36	4th, 6th	45·7	38·0	42·0	− 1·3	10	11	7	2·11	+ 1·01	21·1	+10·6	41	+20	Douglas.
															23·4	—	44	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	51	3rd	32	9th	44·4	35·5	40·1	− 0·3	7	25	7	2·10	+ 1·17	12·8	—	25	—	Aspatria.
	p Newton Rigg ..	51	3rd	29	8th	42·6	33·1	38·0	− 0·9	2	33	6	2·34	+ 1·48	14·0	+ 5·5	28	+11	Newton Rigg.
	p Stonyhurst	50	3rd	34	8th, 9th	44·8	35·5	40·3	− 0·3	8	26	7	1·68	+ 0·67	9·4	+ 2·4	18	+ 5	Stonyhurst.
	p Blackpool .. M	48	3rd	32	8th	44·5	35·1	40·0	− 1·6	7	27	7	1·82	+ 1·09	15·0	+ 7·7	28	+15	Blackpool.
	p M'nch'ster, Prestwich	51	3rd	33	8th, 9th	44·2	35·6	40·1	− 0·6	6	25	7	1·15	+ 0·35	—	—	—	—	*Prestwich.*
	a Liverpool (Bidston)	50	3rd	33	9th	45·1	37·0	41·2	− 0·5	9	21	6	0·68	+ 0·13	*26·6*	—	*50*	—	*Liverpool.*
	a Hawarden Bridge ..	52	3rd	33	8th, 9th	46·7	36·3	41·7	− 1·1	13	25	5	0·84	+ 0·34	*17·9*	+*10·3*	*34*	+*20*	*Southport.*
															25·6	—	*48*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	53	3rd	36	8th	46·0	38·7	42·5	− 1·6	17	9	6	1·65	+ 0·99	25·0	+15·7	47	+30	Llandudno.
	a Holyhead	50	3rd	40	4, 5, 6, 7, 8, 9	47·0	41·1	44·2	− 0·4	19	3	6	2·23	+ 1·32	22·2	—	41	—	Aberdovey.
	p Bettws-y-Coed ..	52	3rd	31	6th	45·6	35·4	40·7	− 3·0	10	27	7	2·48	—	13·1	—	25	—	Bettws-y-Coed.
															22·6	—	42	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	50	3rd	25	6th	45·4	30·7	38·3	− 1·5	10	44	6	3·30	—	18·8	—	35	—	Llangammarch Wells.
	a Pembroke	57	3rd	40	9th	50·9	42·6	46·9	+ 0·9	34	0	7	3·08	+ 2·18	19·3	+ 7·8	35	+14	Pembroke.
	p Cardiff	51	3rd	30	6th	46·3	35·6	41·2	− 0·3	12	27	7	1·82	+ 0·82	*26·7*	—	*49*	—	*Cardiff.*
															24·2	+*12·7*	*44*	+*23*	*Tenby.*
b, ENGLAND, S.W.	a Clifton	52	3rd	33	6, 7, 8th	47·0	37·4	42·4	− 0·2	22	13	5	1·45	+ 0·68	*26·9*	—	*49*	—	*Clifton.*
	a Shaftesbury .. M	50	3rd	32	8th	45·2	36·2	40·9	− 0·1	9	24	5	1·63	+ 0·83	*	*	*	*	*
	a Arlington	49	3rd	32	6th, 8th	46·0	35·4	40·9	− 1·4	11	27	6	2·93	+ 1·57	26·0	+12·8	46	+23	Newquay.
	a Cullompton .. M	52	3rd	26	8th	48·1	32·5	40·6	− 1·8	17	40	7	2·84	+ 2·00	27·3	+17·6	49	+32	Cullompton.
	a Portland Bill ..	54	3rd	40	9th	50·4	43·3	47·0	+ 1·9	35	0	5	1·19	—	*28·3*	—	*51*	—	*Weymouth.*
	p Plymouth	54	3rd	32	6th	49·8	38·0	44·1	− 1·0	32	11	7	3·06	+ 2·11	27·0	+14·9	48	+27	Plymouth.
	p Falmouth	52	3rd	37	6th, 8th	48·9	39·9	44·6	− 1·7	27	6	7	2·59	+ 1·34	29·6	+16·2	53	+29	Falmouth.
															32·5	—	*58*	—	*Salcombe.*
															31·9	+*19·4*	*57*	+*35*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	46	5th	34	5th	44·0	36·3	40·3	− 2·9	6	22	6	0·50	− 0·25	*	*	*	*	*
	a Blacksod Point ..	48	4th	36	9th	45·6	38·1	42·0	− 2·8	10	11	7	3·27	+ 1·97	*	*	*	*	*
	p Markree Castle ..	49	4th, 6th	31	6, 8, 9th	45·5	32·3	39·2	− 2·5	10	39	7	1·79	+ 0·78	12·3	+ 3·3	24	+ 6	Markree Castle.
	a Birr Castle	48	3rd, 4th	29	6th	45·6	32·0	39·1	− 2·6	10	40	7	1·28	+ 0·56	*13·9*	+ *2·2*	*26*	+ *4*	*Birr Castle.*
b, East.	p Armagh	47	5th	32	6th, 9th	43·3	33·7	38·7	− 2·8	4	31	7	1·47	+ 0·81	20·3	+10·6	39	+20	Armagh.
	a Donaghadee	48	4th	32	4, 6, 7, 8	45·3	33·6	39·7	− 3·1	9	33	3	1·63	+ 0·93	*	*	*	*	*
10. IRELAND, S. — a, East.	p Dublin, City.. ..	49	3rd, 5th	35	6, 7, 8, 9	46·8	35·9	41·6	− 2·5	13	26	7	1·03	+ 0·50	22·9	+10·1	43	+19	Phœnix Park.
	a Kilkenny	49	4th	26	6th	46·0	30·1	38·4	− 3·8	11	47	7	1·89	+ 1·15	*	*	*	*	*
	a Waterford	50	4, 8, 9th	28	6th	47·9	31·7	40·1	− 3·3	17	42	7	3·06	+ 2·11	*	*	*	*	*
	a Birr Castle	48	3rd, 4th	29	6th	45·6	32·0	39·1	− 2·6	10	40	7	1·28	+ 0·56	13·9	+ 2·2	26	+ 4	Birr Castle.
b, West.	a Foynes	49	3rd, 4th	34	4th, 6th	44·7	35·3	40·2	− 4·0	8	27	7	2·49	+ 1·49	*	*	*	*	*
	a Cahir .. .. M	49	4th	27	6th	46·1	30·6	38·7	− 4·5	11	45	7	2·11	—	*	*	*	*	*
	a Killarney	50	4th, 8th	33	6th	47·4	35·6	41·7	− 2·8	15	28	7	3·93	+ 2·40	*	*	*	*	*
	a Valencia	51	4th	37	4th, 8th	48·6	38·9	43·9	− 2·6	26	9	7	3·68	+ 2·28	10·6	− 0·7	20	− 1	Valencia.
	a Roche's Point ..	49	4th	34	6th	47·4	37·7	42·7	− 2·9	23	12	7	2·40	+ 1·27	16·6	—	30	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	52	3rd, 9th	39	9th	50·4	43·0	46·9	− 1·7	34	9	7	1·40	+ 0·54	21·3	+ 8·0	37	+14	Scilly.
	a Jersey, St. Aubins ..	54	3rd	35	7th	51·3	40·4	46·1	− 0·2	35	4	7	2·08	+ 1·18	27·1	+11·7	48	+21	St. Heliers.
	a Guernsey	54	3rd	38	6th	49·7	42·4	46·2	− 0·6	29	0	6	2·32	+ 1·32	30·1	+19·1	53	+33	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, *hrs.* (*hrs.*), % (%); *Bournemouth*, *32·3 hrs.*, *58* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	41·3	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	43·5
	Crathes	4	20	38·4	42·2
	Balmoral	6	19	—	—
	Marchmont ..	7	25	37·7	—
2.	Cockle Park	6	25	37·3	42·3
	Durham	4	25	—	—
	York	—	—	41·5	45·9
	Hull	4	22	40·4	46·0
	Lincoln	—	—	39·2	44·9
	Rauceby	6	21	40·8	47·1
3.	Norwich	6	23	—	—
	Yarmouth	—	—	41·9	47·0
	Lowestoft	4	27	41·6	46·7
	Cambridge	5	23	41·4	46·7
	Clacton-on-Sea ..	—	—	44·0	48·3
	Southend	5	24	43·3	—
	Tottenham	2	26	—	48·2
4.	Harrogate	4	28	40·6	43·7
	Huddersfield ..	4	23	39·9	45·1
	Buxton	7	23	39·2	45·6
	Sheffield	5	26	40·4	45·7
	Nottingham	6	23	39·1	44·2
	Birmingham	2	27	42·4	47·4
	Oxford	8	24	—	—
	Hereford	4	22	—	—
	Cirencester	5	24	42·5	46·3
	Bath	—	—	43·1	47·1
5.	Margate	1	—	43·5	46·9
	Greenwich	6	21	—	—
	Westminster ..	5	25	—	—
	Kew	5	20	41·5	47·4
	Canterbury	5	26	43·0	44·6
	Tunbridge Wells ..	6	20	41·9	—
	Wisley	6	17	41·9	46·7
	Worthing	5	22	44·0	48·9
	Portsmouth	3	23	43·3	48·7
6.	Glasgow	4	27	—	—
	Rothesay	—	—	—	45·0
	Colmonell	2	29	—	—
6.	Dumfries	5	26	40·0	44·0
	Douglas	1	30	—	—
7.	Aspatria	3	28	40·8	45·3
	Newton Rigg ..	7	20	40·9	44·1
	Burnley	3	25	40·3	45·0
	Southport	3	29	39·7	44·0
	Manchester City ..	1	30	41·0	46·6
	Bettws-y-Coed ..	1	29	42·0	46·0
8.	Llangammarch Wells	? 7	12	42·5	47·7
	Cardiff	2	25	41·8	46·8
	Clifton	3	28	—	—
	Plymouth	2	25	45·4	—
9.	Armagh	4	29	41·1	45·7
	Markree	5	25	41·4	47·2
10.	Dublin, Trin. Coll. ..	7	20	42·0	46·3
11.	Guernsey, Brooklyn	2	27	47·1	50·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	47	46	46·3
	Kirkwall	40	40	40·0
	Wick	?	?	?
SCOTLAND E.	Cromarty	44	42	43·2
	Pennan Bay	45	43	43·9
	Aberdeen, Cove Bay ..	46	46	46·0
ENGLAND, N.E.	Burnmouth, Berwick ..	43	42	42·6
	Scarborough	44	40	42·4
ENGLAND, E.	Shipwash Lightship ..	49	44	46·6
	Margate‡	46	44	44·8
ENGLAND, S.E.	Eastbourne‡	48	47	47·3
SCOTLAND, W.	Lamlash	48	46	46·9
	Ballantrae	42	39	40·7
ENGLAND, N.W.	Port Erin	50	47	48·8
ENGLAND, S.W.	Newquay	48	47	47·6
	Scilly	51	48	50·1
	Plymouth‡	48	47	47·3
	Salcombe	50	48	49·2
IRELAND, N.W.	Sheephaven	46	45	45·3
	Teelin	48	44	45·4
IRELAND, S.W.	Cleggan	47	43	44·8
	Seafield	47	45	46·2
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ≫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:— b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

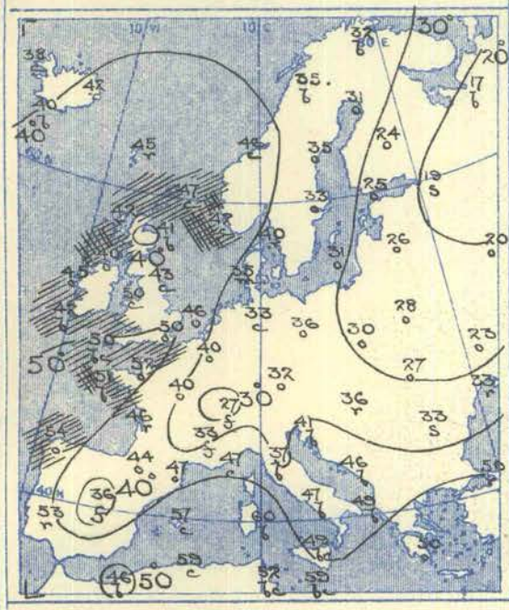
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

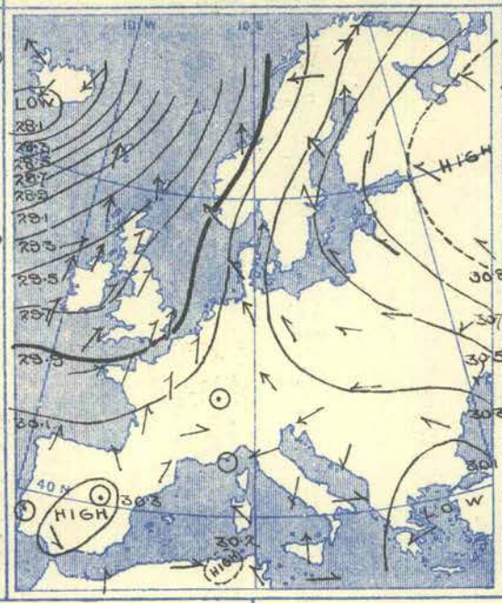
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

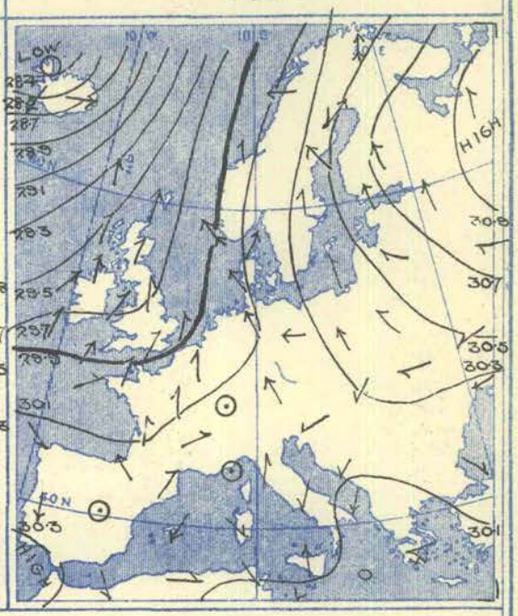
Sunday, 3rd December, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy in the south-east of England and the Hebrides, as well as at several stations scattered on the Continent, and snow at Hermanstadt and St. Petersburg. Fair to fine in Italy, Tunis, and Algeria. Rain, not generally in large amounts, experienced later in most parts of these Islands, France, the Netherlands, some localities in the Spanish Peninsula, and at Malta.

Temperature showing no decided or general change. Morning readings ranging from above 55° at some places on the shores of the Mediterranean to below 40° generally, and to 20° or below in the extreme north-east and north of the Continent. Maxima during day above 50° in England, but only about 45° in Ireland and Scotland, and below 40° over a wide area in central Europe. Frost continuing all day in Poland, and maximum only 34° at Bucharest. Thermometer rising to above 60° at several stations in the far south, but only reaching 43° at Madrid.

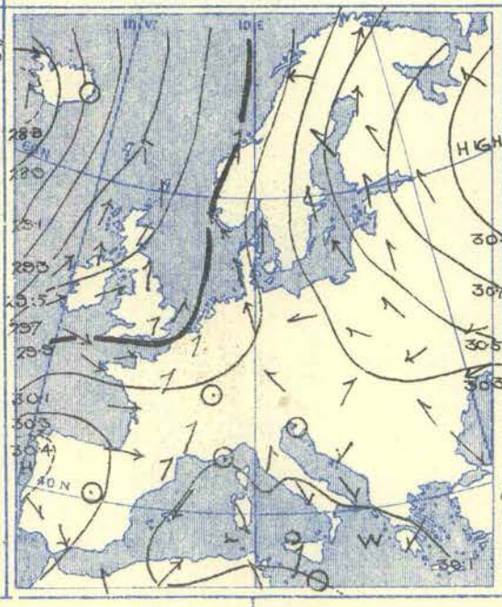
Wind in morning Southerly to South-Westerly over all the western and northern regions; fresh to high over a large area in these Islands and strong to a gale in Scandinavia. Light, variable airs prevailing in the south and south-east of our area. Increasing to a gale later in Ireland and also at Wick and Scilly; veering towards West over England and the Channel. Very strong winds from between South-West and West prevalent on the Atlantic as far west as the 28th meridian.

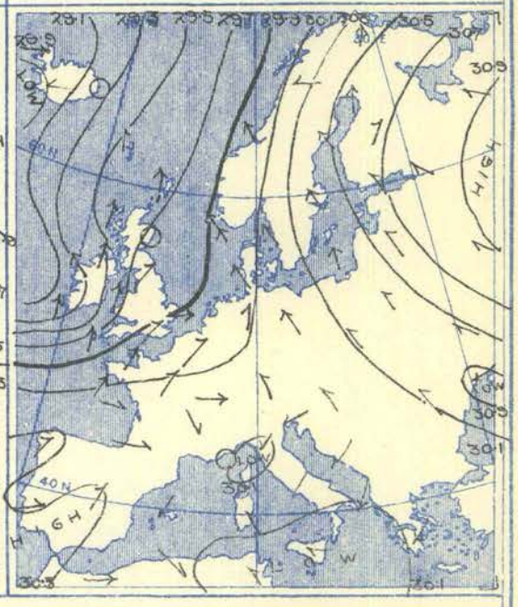
Barometer in morning above 30·8 in. in a large anticyclone having its maximum over the northern half of Russia; below 28·1 in. in a very large and deep depression centred over the south of Iceland. Some small secondary disturbances shown over these Islands. Gradient extremely steep between Scotland and Iceland, and steep or rather so over the north-west of our area as a whole. No change of importance taking place later in day in the general distribution of pressure. Depression apparently moving in a northerly direction.

Monday, 4th December, 1911.

Temperature and Weather | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.





Weather in morning very unsettled in all the north-western countries; overcast in most localities, with rain or passing showers in several places. Fair to bright over the south of our area generally, but dull in the south-east, with snow at Hermanstadt. Rain experienced later in these Islands and the nearer countries of the Continent, and also in a few other parts of our area.

Temperature fallen over the United Kingdom and the north-east of the Continent, as well as at many stations in the south. Readings in morning as low as 28° at Nairn and below 40° over a considerable portion of these Islands. Below 32° over the east and north of the Continent, and below 20° in the greater part of Russia. Above 55° at a few places in the extreme south of our area. Maxima during day below 50° in most parts of this country, and below 40° at many places in central Europe. Frost continuing all day in Poland and at Bucharest. Thermometer rising to above 60° in the far south.

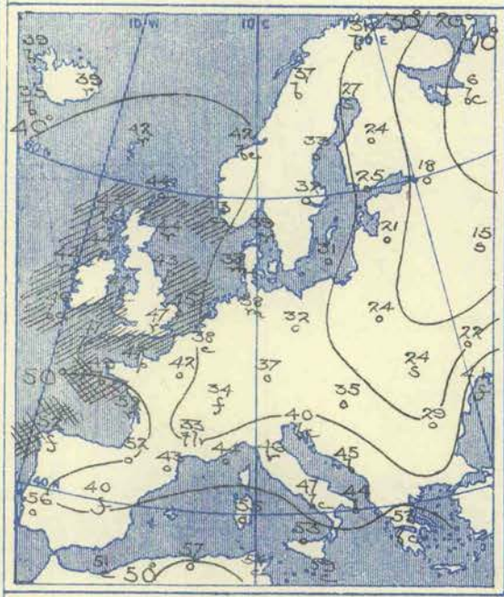
Wind in morning Southerly and South-Westerly in these Islands and the north-west of the Continent and moderate to fresh or strong in force. Light or moderate cyclonic winds prevailing over the Mediterranean. Increasing to a gale from South or South-East by evening or at night on our western and northern coasts and on the south-west coast of Norway. A gale from the Westward to North-Westward blowing on the Atlantic off the west coast of Ireland.

Barometer in morning above 30·8 in. over the north-east of Russia; below 28·8 in. in a very large depression centred to the Southwestward of Iceland; below 30·1 in. in a shallow system over the Mediterranean. A secondary disturbance advancing on Iceland later and gradient increasing quickly over the United Kingdom. Anticyclone maintaining its position, and no important change occurring in the general distribution.

Tuesday, 5th December, 1911.

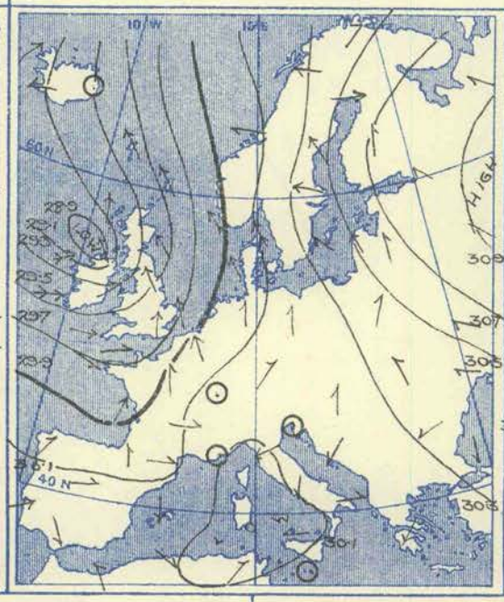
Temperature and Weather.

7 a.m.

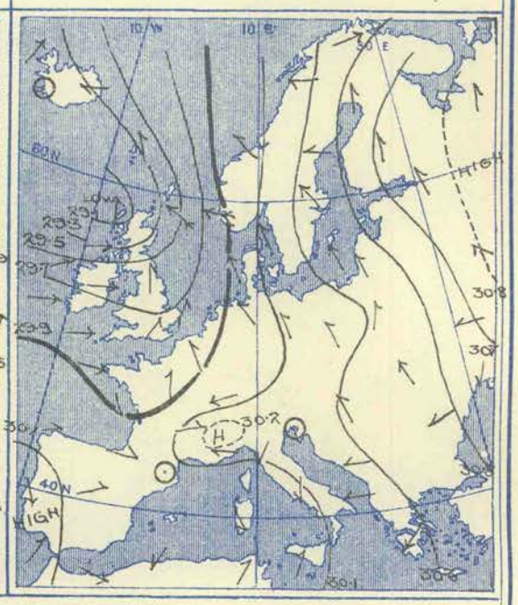


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough, with rain in several places over the United Kingdom and western and north-western Europe generally. Fair at some southern stations, but rainy at Palma, Leghorn and Sétif. Snow falling at Moscow and Haparanda, and a thunderstorm prevailing at Lyons. Rain experienced later over almost the whole of our area.

Temperature risen over these Islands, fallen or changed rather irregularly elsewhere. Morning readings ranging from 59° at Malta and 57° at Algiers to below 40° over the major portion of the Continent, to below 20° in most of Russia, and to 6° at Archangel. Maxima during day between 45° and 50° in most parts of these Islands, the east of France, northern Italy, and the Netherlands, and above 60° at several places in the south of our area. Below 32° in Poland and not much higher in several German and Austrian localities. Frost at night in this country.

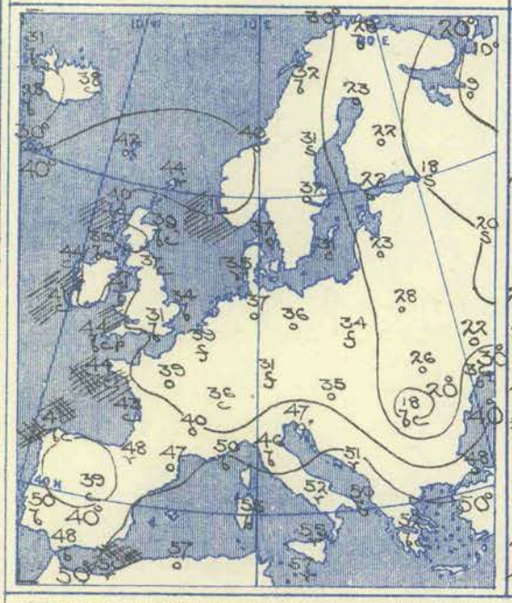
Wind in morning cyclonic except in the east and north-east of our area. Strong to a gale from the Westward in the west of Ireland and on the adjacent part of the Atlantic, from the Southward and South-Westward in England, and from the South-Eastward in Scotland and beyond the North Sea. Veering a few points and decreasing in force by evening over these Islands. No change of importance elsewhere.

Barometer in morning ranging from above 30·9 in. over the northern half of Russia to below 28·7 in. in a very deep depression centred off the north-west of Ireland. Above 30·4 in. in the Azores region, and below 30·1 in. in a shallow depression on the Mediterranean. Main disturbance moving in a northerly direction later and apparently decreasing in intensity. Gradient continuing steep over Scotland and thence to Scandinavia, decreasing over England and Ireland.

Wednesday, 6th December, 1911.

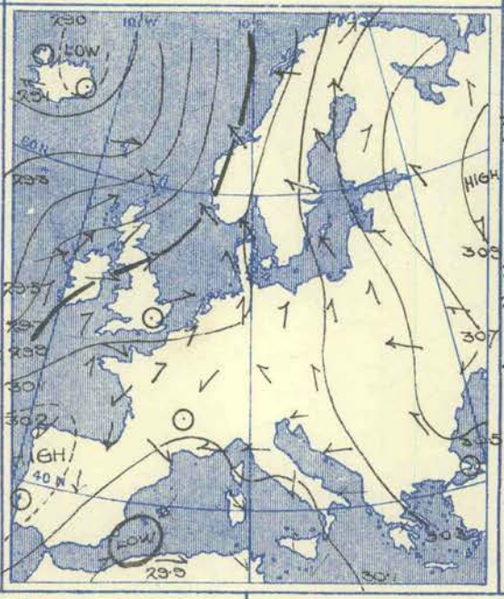
Temperature and Weather.

7 a.m.

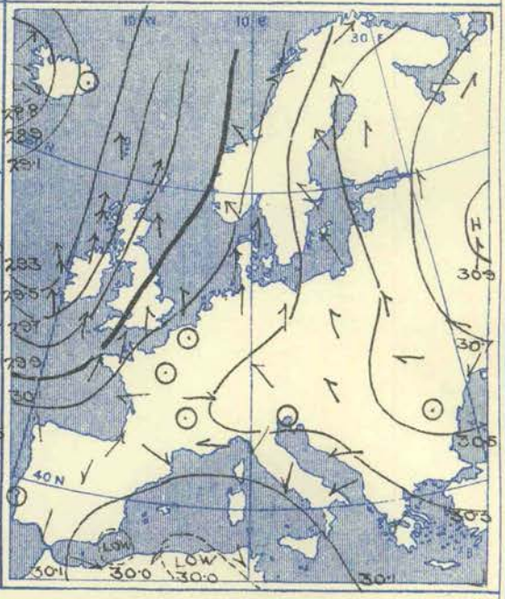


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to fine in most parts of Great Britain, but showery in Shetland and at Scilly, and cloudy to overcast in Ireland. Very cloudy or overcast over the major portion of the Continent and the Mediterranean region, with rain in a few southern localities, and snow here and there in the north and north-east. More than an inch of rain later in the west of Ireland and about an inch in some parts of Wales and the south-west of England. Considerable or heavy rains in the west and north-west of France and also in Algeria; as much as 1·2 in. at Nantes.

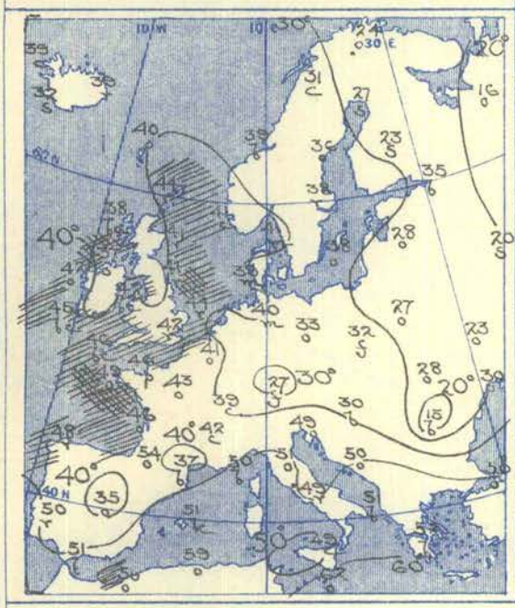
Temperature fallen in most regions. Morning readings ranging from 57° at Algiers and Malta and 55° at one or two other southern stations to below 32° in central Ireland, many parts of England, and over a large area in the eastern half of Europe; below 10° in the north of Russia. Rising subsequently to above 60° in various places in the far south, but remaining below 50° over our area as a whole, and below 32° in some localities in central and northern Europe. Maximum only 48° at Madrid and 54° at Lisbon.

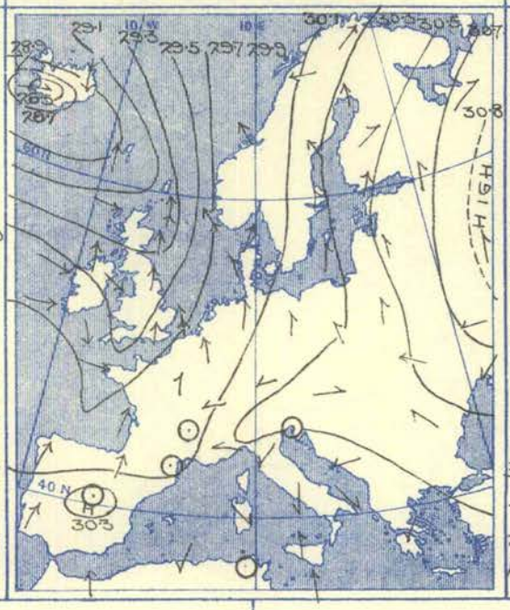
Wind in morning mainly Westerly to South-Westerly over these Islands; light or moderate generally, fresh to strong on the extreme north-west coast. South-Easterly in Scandinavia, fresh or strong as a whole, and blowing a gale in the south-west of Norway. Light Southerly breezes general over Russia, and a complete cyclonic circulation of little force prevailing over the western parts of the Mediterranean. Backing to the Southward over the United Kingdom by evening and increasing to a gale in many places. No change of importance occurring on the Continent; gale continuing at Skudesnaes.

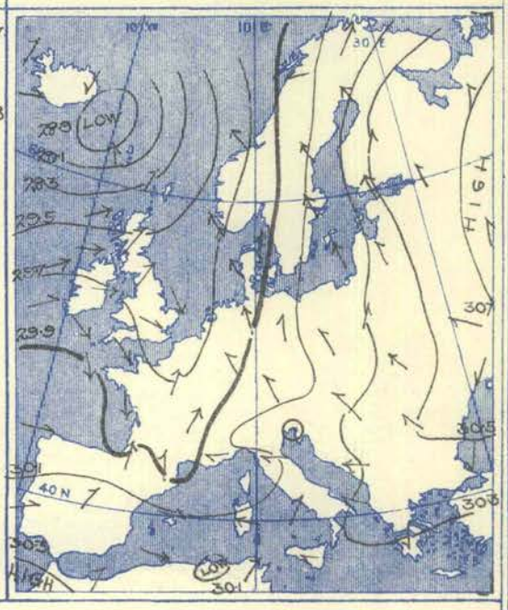
Barometer in morning above 30·9 in. in the northern parts of Russia; below 29·9 in. in a depression of little intensity centred between Alicante and Oran, and below 29·0 in. in a depression over Iceland. Another low shown on the Atlantic. A fresh depression advancing on Iceland later in day, and a deep secondary travelling quickly to the west of these Islands. Gradient growing steep or rather steep over the United Kingdom and the surrounding Seas and Channels.

Thursday, 7th December, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rainy in many parts of Great Britain and the nearer regions of the Continent and also at some stations in southern Europe. Rain or snow falling over a large area in Scandinavia and the northern half of Russia. Bright conditions prevailing on the Riviera and in Greece. Rain experienced in most parts of our area later. More than an inch in the south of France and considerable quantities in many other regions.

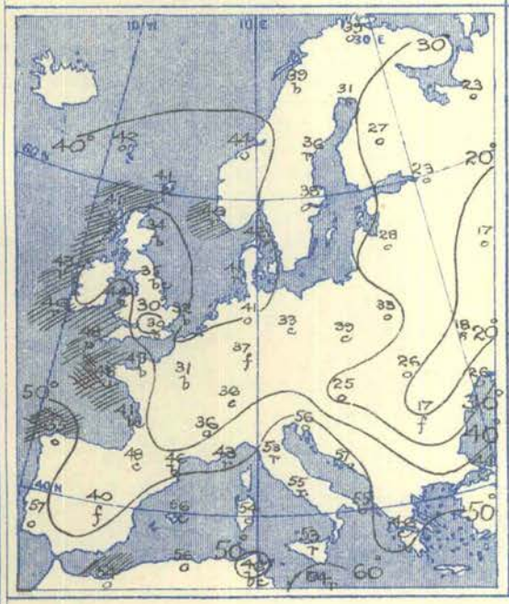
Temperature risen over these Islands and the north-west of the Continent. Morning readings 20° or below over a large portion of Russia and Transylvania, below 32° in Bavaria, and no higher than 35° at Madrid. Above 40° in most parts of the United Kingdom and France, above 50° on various shores of the Mediterranean, and as high as 62° at Malta. Maxima during day below 45° in many parts of these Islands and central Europe, and below 60° except in the extreme south of our area. Frost at night in England, Scotland, and the north-east of France.

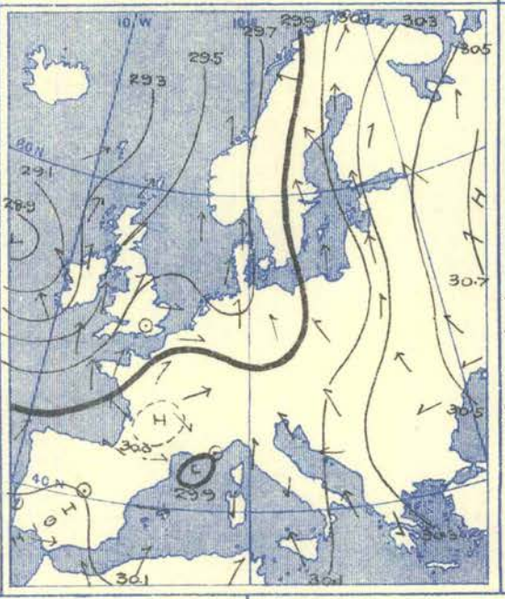
Wind in morning Southerly in most parts of Great Britain and the western countries of the Continent, strong to a gale in many places. Mainly North-Westerly in Ireland, Wales, and the south-west of England; high at Scilly and on the Cornish coast. Veering later over Great Britain and France, and decreasing in force, but returning to the Southward and increasing in Ireland.

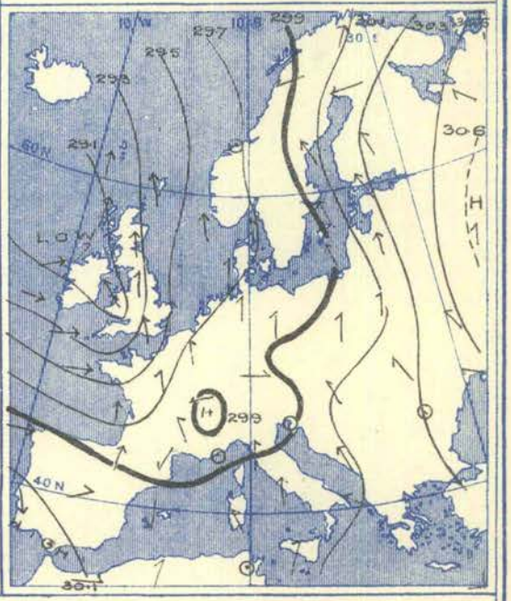
Barometer in morning below 28·5 in. in a large cyclonic system having its minimum in the south-west of Iceland and relatively low in a "V" shaped system extending over these Islands and the Bay of Biscay. Above 30·8 in. in a large anticyclone over Russia. Depressions travelling eastward later and undergoing some modification in form and intensity. Barometer rising decidedly in the west of these Islands for a time, but falling quickly again at night. Russian anticyclone receding slowly Eastward.

Friday, 8th December, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to very fine over Great Britain, but rainy in Ireland and at Scilly. Mainly very cloudy or overcast on the Continent, with rain or snow in many localities. Rainy at Malta and Palermo. Rain falling very generally later over the United Kingdom, France, and Italy, and in several scattered regions elsewhere. Measurements considerable at many of our own stations, and about 1·2 in. at Rome and Naples.

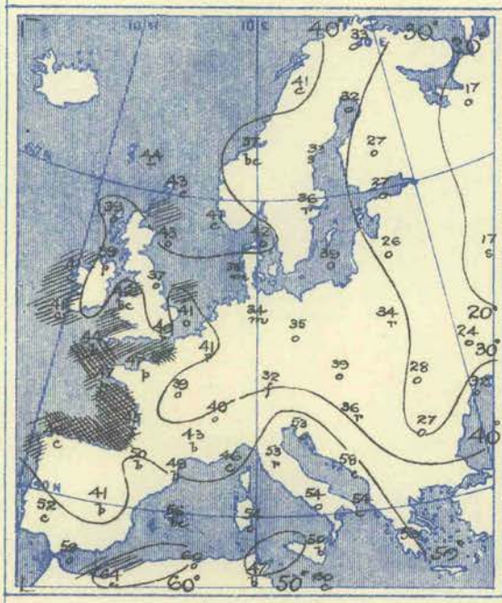
Temperature fallen in France, England, and Scotland, risen in Ireland and Wales. Morning readings ranging from 64° at Malta and about 55° at some other stations in the south of our area to below 32° in some inland parts of Great Britain and France, to below 20° at Hermanstadt and Kuopio, and also at some Russian stations. Maxima during day below 45° over the major portion of these Islands and at many places in central Europe, as well as at Turin; frost continuing all day at Lemberg and Memel. Thermometer rising to about 65° at several stations in the far south.

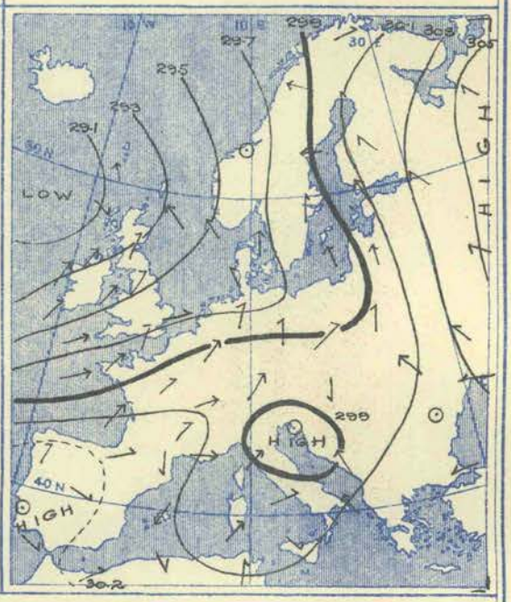
Wind in morning fresh or strong from the Southward in the west of these Islands and in Brittany, as well as in Scandinavia; light from West or North-West in the south-east of England and over the Netherlands. Light or moderate breezes from rather variable points prevailing elsewhere. Increasing to a gale from the Southward or South-Eastward later on several parts of our eastern and northern coasts and also over the Irish Sea and St. George's Channel, and from West at the Scilly Isles.

Barometer in morning above 30·7 in. in the north-east of Russia and above 30·3 in. in the Azores; below 28·9 in. in a depression on the Atlantic some distance off Ireland, and relatively low in a secondary over the North Sea, and in another off the south coast of France. A deep depression of a "V-shaped" character spreading over these Islands during day and pressure increasing again in the west of Ireland. Russian anticyclonic system receding slowly eastward.

Saturday, 9th December, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.





Weather in morning fine and bright at a few stations in the south of our area, but generally very cloudy or overcast, with rain in some parts of these Islands and in various localities on the Continent; snow falling at Moscow and Hernösand. Rain experienced subsequently over almost all of Europe except Germany and some parts of Italy. Amount considerable in the Spanish Peninsula and France, as well as in the south of Ireland and the north-east of Scotland.

Temperature risen in many parts of France and over England and Scotland, fallen in Ireland and Wales, as well as in some regions in northern Europe. Morning readings ranging from below 20° at Archangel and Moscow, and below 32° over a large area in eastern and north-eastern Europe to above 40° in the south of England, and above 50° over the greater part of the Mediterranean. Maxima during day between 45° and 50° over a large portion of the United Kingdom and France, rather lower in the central countries, and above 60° in the extreme south of our area.

Wind in morning strong to a gale from the North-Westward over the Bay of Biscay, and fresh to high from the Westward over Ireland and most of England; moderate to strong from the South-Eastward over Scandinavia and the North Sea region. Light breezes, mainly from between South and West, over the Mediterranean and southern Europe. Backing to the Southward by evening or at night in most parts of these Islands and increasing in force. No change of importance elsewhere.

Barometer in morning above 30·5 in. in Russia and above 30·3 in. to the westward of Portugal; below 29·2 in. in a "V-shaped" depression extending to the north-east of England from the north-westward. Pressure decreasing slowly in the west and north-west of these Islands during day, and very briskly during night. A depression, apparently of increasing intensity, arriving over our western districts.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

401

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 50. FIFTIETH WEEK, SUNDAY, DECEMBER 10TH, TO SATURDAY, DECEMBER 16TH, 1911. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather. An unsettled condition prevailed very generally. Rain was of almost daily occurrence, and in the western and northern districts fine intervals were usually very brief. Slight thunderstorms were observed in a few parts of south-eastern and south-western England on the 11th, and at Donaghadee on the 14th and 15th. Aurora was visible at Gordon Castle and Aberdeen on the 11th, and at the latter station on the 14th also.

Temperature was above the normal, the excess amounting to nearly 4° in the Midland Counties and the east and south-east of England, and to more than 3° in Scotland N. The highest of the maxima were registered as a rule on the 16th, and ranged from 55° in Ireland S. and 54° in the English Channel, the Midland Counties, Scotland N. and Ireland N. to 51° in Scotland W. The lowest of the minima, which were recorded during the earlier half of the week, varied from 23° in Scotland E. and 27° in Ireland S. to 33° in Scotland W. and England N.W., and to 41° in the English Channel. The lowest grass readings were 20° at Balmoral, 22° at Canterbury and Norwich, and 23° at Tunbridge Wells.

Mean Temperature of the Sea. On most parts of the coast the water was colder than during the corresponding week of last year. The mean temperatures ranged from 49° at Scilly, and above 48° at Port Erin and Salcombe, to 42°·4 at Ballantrae, 42°·1 at Burnemouth, and to 40° at Kirkwall.

Rainfall greatly exceeded the average in all districts except Scotland N. Falls of more than an inch occurred on various dates in many parts of the Kingdom, on the 10th in several parts of England, on the 14th in some Irish localities and at Hereford, and on the 15th at Crathes. At this last named station the fall in 24 hours amounted to 2·03 in.

Bright Sunshine varied considerably in the different districts; in Scotland N. and E., Ireland N. and the English Channel it was less than the normal, and in Scotland W., England N.W. and Ireland S. just equal to it, while elsewhere it was above it. The percentage of the possible duration ranged from 29 in England E., and 26 in England S.E. to 15 in Ireland N., 6 in Scotland E., and 3 in Scotland N.

Barometer and Wind. A cyclonic type of pressure distribution was again prevalent over these Islands, the general wind current being from between South-West and South or South-East, and gales or strong winds were frequent, especially on the west coasts. The steepest gradient accompanied the depression of the 10th and 11th, whose centre moved north-north-eastward over our western and northern districts; gales occurred very generally, and over a large area the force of a strong to whole gale was attained. Most of the depressions observed later remained on the Atlantic and had less effect on the force of the wind, but on Wednesday the centre of a deep depression advanced to our south-west coasts, and the gales in its neighbourhood were very strong. On Friday the central portion of a complex system extended from beyond the north-west of Ireland to South Wales, and the wind veered to the Westward or North-Westward for a time on our south-west coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 396.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Moderate	Very heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy
	Sunshine ...	Scanty	Scanty	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 2 weeks from Dec. 3rd, 1911.	Warmth ...	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 0	0 * 0	0 * 1	0 * 1	1 * 0
	Rainfall ...	0 * 0	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0
	Sunshine ...	1 * 1	1 * 1	1 * 0	2 * 0	2 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0

PAST SEASONS.

WINTER, 1910-11. Dec. 4th-March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th-June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th-Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd-Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTIETH WEEK—December 10th to December 16th, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	54	30	46·4	38·0	42·4	+ 3·4	20	+ 11	11	−18	5	− 1	1·22	−0·20	1	− 3	3	− 6
Eastern																		
1. SCOTLAND, EAST	53	23	44·7	35·5	40·3	+ 2·4	8	0	26	−12	6	+ 1	1·53	+0·85	3	− 4	6	− 9
2. ENGLAND, N.E.	53	30	46·1	36·7	41·6	+ 2·4	11	+ 2	23	− 7	6	+ 3	1·46	+0·88	11	+ 2	21	+ 4
3. ENGLAND, EAST	52	30	47·5	37·4	42·7	+ 3·7	24	+ 14	13	−21	5	+ 1	0·84	+0·38	15	+ 5	29	+10
4. MIDLAND COUNTIES	54	32	47·6	36·7	42·4	+ 3·6	25	+ 14	15	−21	6	+ 2	1·65	+1·11	11	+ 3	21	+ 5
5. ENGLAND, S.E.	53	32	49·5	40·0	44·9	+ 3·8	29	+ 12	6	−17	6	+ 2	1·61	+1·01	14	+ 4	26	+ 7
Western																		
6 SCOTLAND, WEST	51	33	46·2	39·3	42·9	+ 2·1	18	+ 5	8	−14	6	+ 1	1·69	+0·44	7	0	13	0
7. ENGLAND, N.W.	53	33	47·9	39·1	43·6	+ 3·0	23	+ 10	8	−16	6	+ 1	1·50	+0·71	7	0	14	0
8. ENGLAND, S.W.	53	32	49·9	40·1	45·2	+ 2·6	30	+ 9	5	−11	7	+ 2	2·08	+1·02	12	+ 2	22	+ 3
9 IRELAND, NORTH	54	31	47·3	37·6	42·7	+ 1·6	23	+ 9	12	−10	6	+ 1	1·72	+0·84	8	− 1	15	− 3
10. IRELAND, SOUTH	55	27	48·7	38·1	43·6	+ 0·6	28	+ 5	11	− 5	7	+ 2	1·86	+0·83	11	0	21	0
11. ENGLISH CHANNEL	54	41	52·1	44·0	48·2	+ 1·2	43	+ 9	0	− 4	7	+ 2	1·76	+0·83	11	− 2	20	− 3

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 2 Weeks, December 3rd to December 16th, 1911.

0. SCOTLAND, NORTH	54	26	*	*	*	*	26	+ 7	39	−18	11	0	2·58	−0·38	12	+ 3	13	+ 3
Eastern																		
1. SCOTLAND, EAST	53	21	*	*	*	*	10	− 7	64	− 8	11	+ 1	2·34	+0·88	19	+ 4	20	+ 4
2. ENGLAND, N.E.	53	29	*	*	*	*	15	− 5	52	− 4	11	+ 4	2·24	+1·11	25	+ 7	24	+ 7
3. ENGLAND, EAST	55	27	*	*	*	*	33	+ 10	44	−20	12	+ 3	1·84	+0·84	29	+ 9	27	+ 8
4. MIDLAND COUNTIES	54	26	*	*	*	*	34	+ 10	49	−18	12	+ 4	2·78	+1·64	32	+ 15	30	+14
5. ENGLAND, S.E.	54	24	*	*	*	*	44	+ 8	34	−10	13	+ 4	3·30	+1·99	34	+ 13	31	+12
Western																		
6 SCOTLAND, WEST	55	30	*	*	*	*	24	− 4	35	− 6	13	+ 3	4·13	+1·53	22	+ 8	22	+ 8
7. ENGLAND, N.W.	53	29	*	*	*	*	32	+ 4	32	−11	12	+ 2	3·20	+1·51	24	+ 9	23	+ 9
8. ENGLAND, S.W.	57	25	*	*	*	*	55	+ 10	18	−13	13	+ 3	4·47	+2·25	36	+ 15	33	+13
9. IRELAND, NORTH	54	29	*	*	*	*	31	+ 2	42	0	12	+ 1	3·38	+1·59	24	+ 5	23	+ 5
10. IRELAND, SOUTH	55	26	*	*	*	*	41	− 7	43	+12	14	+ 4	4·29	+2·25	27	+ 5	25	+ 5
11. ENGLISH CHANNEL	54	35	*	*	*	*	74	+ 3	0	− 7	14	+ 4	3·69	+1·70	37	+ 11	33	+10

THE YEAR.—Aggregates, &c., for the Period of 50 Weeks, January 1st to December 16th, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	2230	+133	608	−123	213	−24	48·11	−1·86	1247	+146	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2470	+130	734	−110	189	− 7	27·59	−2·00	1461	+143	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3050	+424	497	−119	168	− 9	22·47	−1·41	1581	+150	37	+ 4
3. ENGLAND, EAST	97	16	*	*	*	*	3560	+529	517	−168	163	− 9	21·16	−1·62	1791	+233	42	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	3379	+435	563	−155	150	−20	19·97	−5·29	1579	+192	37	+ 5
5. ENGLAND, S.E.	96	16	*	*	*	*	3661	+358	455	− 37	148	−17	25·12	−0·79	1922	+345	45	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2816	+254	487	− 61	187	−18	41·02	−4·94	1535	+188	36	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3152	+349	397	− 94	169	−21	31·52	−1·94	1668	+299	39	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3527	+369	358	− 25	166	−23	33·11	−3·69	1825	+234	43	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2890	+212	418	− 40	182	−41	31·18	−5·48	1508	+243	35	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3388	+279	405	+ 55	199	0	36·48	−1·64	1610	+183	37	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	4087	+353	137	+ 17	173	−29	30·87	−0·28	2013	+142	47	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Baltasound* S	*47*	*13th*	*37*	*10th*	*45·5*	*41·4*	*43·5*	—	*13*	*2*	7	*0·39*	—	*2·7*	—	7	—	*Baltasound.*
	a Lerwick	48	16th	38	10th	46·3	41·6	44·0	+ 3·3	16	1	5	1·49	—	2·5	− 2·9	6	− 7	Deerness.
	a Stornoway	50	16th	32	10th	46·9	38·4	42·8	+ 2·5	21	10	6	1·30	− 0·11	0·4	− 5·7	1	−13	Stornoway.
	a Castlebay, Barra Isd.	*50*	*16th*	*36*	*10th*	47·4	*41·1*	*44·4*	*+ 1·5*	*21*	*3*	7	*1·58*	—	*3·4*	—	*7*	—	*Castlebay.*
	a Wick	47	12th, 16th	34	10th	46·1	39·9	43·1	+ 3·5	17	6	5	1·32	+ 0·65	*	*	*	*	*
	p Strathpeffer	48	16th	30	10th, 15th	44·9	33·6	39·5	+ 1·8	8	33	5	0·77	+ 0·01	2·0	− 4·7	4	−11	Strathpeffer.
	p Glencarron	54	16th	31	10th	46·3	36·2	41·5	+ 3·6	12	25	6	1·70	− 0·60	*	*	*	*	*
	p Fort Augustus	53	16th	33	10th, 15th	47·2	36·5	42·1	+ 3·1	24	15	5	0·76	− 0·49	0·7	− 1·3	2	− 3	Fort Augustus.
	p Fort William	52	16th	36	10th	47·4	39·8	43·8	+ 3·2	22	6	6	1·23	− 0·99	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	48	16th	33	10th, 15th	45·4	35·0	40·4	+ 1·3	10	28	6	1·77	+ 1·17	*4·6*	—	*10*	—	*Gordon Castle.*
	a Nairn	53	16th	29	10th	45·4	33·0	39·5	+ 1·2	10	36	6	0·54	+ 0·04	3·4	—	8	—	Nairn.
	a Aberdeen	48	16th	33	10th	46·4	38·7	42·7	+ 3·6	19	9	6	1·93	+ 1·27	2·5	− 6·5	5	−14	Aberdeen.
	a Balmoral S	45	12th, 15th	23	10th	42·9	33·0	38·2	+ 2·9	3	34	6	2·30	+ 1·55	3·0	—	7	—	Crathes S.
	p Crieff S	46	13th, 16th	33	10th	43·9	36·2	40·2	+ 2·0	5	23	6	1·91	+ 0·95	0·1	—	0	—	Balruddery.
	a Leith	53	16th	33	10th	46·9	38·1	42·7	+ 2·6	21	11	6	0·46	+ 0·03	*	*	*	*	*
	p West Linton S	49	16th	32	10th, 14th	43·7	35·3	39·7	+ 2·3	5	26	6	1·09	—	*4·1*	—	*9*	—	*West Linton.*
	p Marchmont S	45	12th	30	10th	43·0	34·3	38·8	+ 1·1	3	29	6	2·24	+ 1·65	4·0	− 4·1	8	− 9	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle	50	16th	30	10th	45·8	35·3	40·8	+ 1·2	11	28	6	2·10	+ 1·45	7·8	—	16	—	Cockle Park.
	a Shields	50	16th	34	10th	47·7	36·4	42·3	+ 2·2	26	16	6	1·63	+ 1·19	*4·2*	*− 1·3*	*9*	*− 3*	*Newcastle.*
	p Durham	48	10th	34	15th	45·5	35·9	40·9	+ 2·6	10	25	6	1·54	+ 1·11	7·6	− 1·9	15	− 4	Durham.
	p Rounton M	48	10th	34	10th	45·4	36·7	41·2	+ 2·9	10	22	5	1·67	+ 1·25	*	*	*	*	*
	p Scarborough M	47	15th	35	10, 13, 14th	44·6	36·7	40·8	+ 0·6	7	21	7	1·47	+ 0·97	10·1	—	20	—	Scarborough.
	p York	50	10th	35	10th, 13th	46·3	38·1	42·4	+ 2·9	19	11	5	1·57	+ 1·14	5·2	− 0·7	10	− 1	York.
	a Spurn Head — b, South.	49	16th	25	12th	45·6	37·9	41·5	+ 0·9	10	21	5	0·83	+ 0·42	*	*	*	*	*
	a Lincoln	53	16th	33	12th	47·4	36·6	42·2	+ 3·2	24	15	5	1·06	+ 0·63	16·9	—	33	—	Skegness.
	a Fulbeck	52	16th	35	13th	46·7	37·4	42·2	+ 3·9	21	13	5	1·31	+ 0·88	16·3	—	31	—	Rauceby.
															12·0	—	*23*	—	*Lowestoft.*
												7	0·75	—	17·9	—	34	—	Cromer.
3. ENGLAND, E. — a, North.	*p* Cromer											6	0·84	+ 0·30	17·2	+ 7·7	33	+15	Hillington.
	p Hillington M	49	15th	30	12th	45·9	35·1	40·7	+ 2·0	11	28	5	0·75	+ 0·25	18·1	—	34	—	Yarmouth.
	a Yarmouth	50	16th	34	12th, 13th	47·3	38·3	43·0	+ 3·1	23	10	5	0·85	—	*	*	*	*	*
	a Norwich	52	16th	31	12th	46·7	37·0	42·0	+ 2·8	13	14	6	0·77	+ 0·29	18·9	+ 7·8	36	+15	Geldeston.
	p Geldeston	50	14, 15, 16th	33	10th, 12th	47·9	37·3	42·8	+ 3·1	25	13	4	0·75	+ 0·38	15·5	+ 6·2	29	+12	Cambridge.
	p Cambridge	50	14th. 15th	30	12th	48·3	36·4	42·6	+ 3·4	28	16	5	*0·75*	—	*18·9*	—	*36*	—	*Felixstowe.*
	a Felixstowe — b, South.	*49*	*14th*	*35*	*12th*	*47·0*	*39·3*	*43·3*	*+ 2·7*	*20*	*8*	7	0·57	—	12·7	—	24	—	Clacton.
	a Clacton-on-Sea	48	14th, 16th	36	12th, 13th	46·6	39·6	43·2	+ 2·9	18	7	7	1·37	+ 0·82	16·6	+ 6·9	31	+13	Rothamsted.
	a Rothamsted	52	16th	31	12th	48·3	36·2	42·5	+ 3·3	28	16	6	*0·65*	*+ 0·31*	*18·5*	—	*34*	—	*Southend.*
	a Shoeburyness	*51*	*16th*	*37*	*10th, 12th*	*48·6*	*39·7*	*44·3*	*+ 3·4*	*26*	*6*	7	0·90	—	5·6	—	10	—	Tottenham.
	p Tottenham	52	16th	35	12th	49·3	39·6	44·6	+ 4·6	28	7								
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	47	10th	33	13th	44·1	36·3	40·4	+ 2·0	6	23	7	1·80	+ 1·22	4·4	—	9	—	Harrogate.
	a Bawtry	51	16th	32	16th	45·0	35·4	40·4	+ 1·5	8	27	6	1·55	+ 1·12	7·6	+ 0·4	15	+ 1	Worksop.
	p Buxton M	*47*	*10th*	*31*	*13th*	*44·2*	*35·9*	*40·2*	*+ 3·3*	*6*	*24*	6	*2·89*	*+ 1·71*	*9·0*	—	*17*	—	*Buxton.*
	a Nottingham	53	16th	34	12th, 13th	48·4	36·9	42·9	+ 3·6	28	14	6	1·27	+ 0·79	13·4	—	26	—	Nottingham.
	p Birmingham, Edgbsn	50	10th	34	12th	46·8	37·4	42·3	+ 3·1	21	13	6	1·91	+ 1·38	5·9	—	11	—	Birmingham.
	a Raunds M	52	16th	32	12th	48·0	36·2	42·3	+ 3·4	26	16	4	1·17	—	*	*	*	*	*
	a Oxford	53	16th	36	12th	49·7	38·6	44·4	+ 4·4	31	10	6	1·24	+ 0·77	15·2	+ 5·7	28	+11	Oxford.
	a Cheadle M — b, West.	50	16th	32	12th	46·0	34·3	40·4	+ 2·2	11	32	7	1·89	+ 1·24	14·8	—	29	—	Sheffield.
	p Shrewsbury	51	10th, 16th	35	12th, 14th	48·3	37·3	43·0	+ 1·7	27	13	6	1·06	—	*	*	*	*	*
	a Hereford M	52	16th	36	10th	47·4	38·0	42·9	+ 3·2	23	11	7	2·39	+ 1·77	*	*	*	*	*
	a Cirencester	52	16th	32	12th	48·2	34·2	41·5	+ 2·7	17	34	7	1·46	+ 0·86	12·5	+ 3·3	23	+ 6	Cirencester.
	a Bath	54	16th	37	14th	51·3	38·9	45·4	+ 4·4	37	9	7	2·45	+ 0·77	14·5	—	27	—	Bath.
															16·6	—	*31*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	51	16th	32	12th	48·9	38·7	44·0	+ 3·5	28	9	6	1·02	+ 0·57	12·5	+ 4·1	23	+ 8	Kew.
	a Marlborough	52	16th	34	11th	49·3	37·0	43·4	+ 4·4	31	14	7	2·06	+ 1·39	12·7	+ 4·9	24	+ 9	Marlborough.
	a Margate	51	16th	36	12th	48·9	41·3	45·3	+ 3·9	26	2	5	0·77	+ 0·30	17·0	+ 6·3	31	+12	Margate.
	a Wisley, Surrey	53	16th	36	12th	49·8	40·7	45·4	+ 4·9	29	4	6	1·81	—	12·9	—	24	—	Wisley.
	a Swarraton M	51	16th	32	12th	48·7	36·4	42·8	+ 3·3	29	16	7	2·51	+ 1·81	14·1	—	26	—	Worthing.
	a Tunbridge Wells M	50	16th	32	12th	47·6	37·0	42·5	+ 2·8	25	14	5	2·10	+ 1·43	18·0	+ 8·0	33	+15	Tunbridge Wells.
	a Dungeness	51	14, 15, 16th	40	10th, 12th	50·0	43·1	46·7	+ 4·6	33	0	4	1·19	+ 0·69	12·4	—	23	—	Littlestone.
	p Hastings	51	12th, 16th	36	12th	49·5	41·9	45·9	+ 3·9	28	0	6	1·12	+ 0·47	*15·5*	*+ 2·6*	*28*	*+ 5*	*Hastings.*
	p Southampton	52	12th, 13th	34	12th	50·8	39·9	45·6	+ 3·5	34	6	5	2·03	+ 1·36	12·7	+ 1·8	24	+ 3	Southampton.
	a Ventnor	53	16th	41	10th, 12th	51·2	43·7	47·6	+ 3·3	39	0	7	1·44	+ 0·77	12·5	+ 1·3	23	+ 2	Ventnor.
															13·1	+ 1·1	24	+ 2	Eastbourne.
LONDON	*a Westminster*	*53*	*16th*	*34*	*12th*	*50·9*	*40·0*	*45·7*	*+ 5·1*	*34*	*6*	4	*1·01*	*+ 0·56*	*10·9*	*+ 7·8*	*20*	*+ 15*	*Westminster.*
	a Greenwich	*52*	*16th*	*34*	*12th*	*49·6*	*39·1*	*44·6*	*+ 4·4*	*30*	*8*	5	*0·99*	*+ 0·55*	*16·9*	*+ 9·3*	*31*	*+17*	*Greenwich.*
6. a, SCOTLAND. W.	*a* Poltalloch S	50	16th	33	10th	43·7	38·6	41·3	+ 0·8	5	14	7	1·90	+ 0·65	*	*	*	*	*
	p Glasgow	49	16th	37	10th	46·0	39·4	42·8	+ 2·7	17	7	6	1·01	+ 0·11	1·6	− 1·7	3	− 4	Glasgow.
	p Rothesay S	50	16th	37	11th	46·7	40·3	43·6	+ 2·9	18	5	7	1·46	+ 0·36	*	*	*	*	*
	a Kilmarnock	51	16th	33	10th	46·6	38·6	42·8	+ 2·1	20	10	6	0·63	—	*7·1*	—	*15*	—	*Kilmarnock.*
	a Colmonell	50	16th	35	11th	45·7	38·4	42·2	+ 0·8	17	10	7	2·23	+ 1·07	*	*	*	*	*
	p Dumfries	48	12th, 16th	37	14th	46·6	38·9	42·9	+ 3·5	19	9	6	2·15	+ 1·25	*1·4*	—	*3*	—	*Dumfries.*
	p Cally, Gatehouse	49	12th, 14th	35	10th	46·8	39·0	43·1	+ 3·4	20	8	6	2·32	+ 1·11	*	*	*	*	*
	p Douglas — b, ISLE OF MAN	50	16th	40	12th	47·8	41·5	44·8	+ 2·2	22	1	6	1·85	+ 0·76	11·4	+ 1·7	22	+ 3	Douglas.
															12·8	—	25	—	Hoylake.
7. a, ENGLAND, N.W.	*p* Aspatria	51	16th	38	10th, 11th	48·0	39·2	43·8	+ 4·3	24	8	5	1·17	+ 0·27	7·7	—	15	—	Aspatria.
	p Newton Rigg	46	10, 11, 16th	33	10th, 11th	45·1	35·8	40·6	+ 2·6	9	25	7	2·60	+ 1·74	4·4	− 3·3	9	− 7	Newton Rigg.
	p Stonyhurst	49	10th	36	10th	47·0	38·5	42·9	+ 3·3	21	10	6	2·18	+ 1·18	2·9	− 3·3	6	− 7	Stonyhurst.
	p Blackpool M	50	10th	36	10th	47·3	38·2	42·9	+ 2·4	22	11	6	1·09	+ 0·39	9·9	+ 3·3	19	+ 7	Blackpool.
	p M'nch'ster, Prestwich	51	10th	35	12th	47·9	38·1	43·2	+ 3·5	25	11	6	1·89	+ 1·07	?	?	?	?	*Prestwich.*
	a Liverpool (Bidston)	53	16th	37	11th, 12th	47·9	38·4	43·3	+ 2·2	24	10	6	0·66	+ 0·12	*12·9*	—	*25*	—	*Liverpool.*
	a Hawarden Bridge	52	10th, 16th	38	10th, 12th	49·3	39·3	44·5	+ 2·6	29	8	6	0·91	+ 0·43	*12·3*	*+ 5·4*	*24*	*+11*	*Southport.*
															11·5	—	*22*	—	*Rhyl.*
8. b, NORTH WALES	*p* Llandudno M	53	16th	39	14th	49·1	42·2	45·8	+ 2·5	27	0	6	0·97	+ 0·34	9·2	+ 0·6	18	+ 1	Llandudno.
	a Holyhead	51	13th	40	11th	48·4	42·1	45·4	+ 1·7	24	0	6	1·93	+ 1·05	8·3	—	16	—	Aberdovey.
	p Bettws-y-Coed	53	16th	36	12th	48·6	39·0	44·0	+ 1·0	27	8	7	1·63	—	3·1	—	6	—	Bettws-y-Coed.
															7·3	—	14	—	Aberystwyth.
a, SOUTH WALES	*a* Llangammarch Wells	53	16th	33	12th	48·5	35·8	42·4	+ 3·4	29	17	7	2·81	—	3·6	—	7	—	Llangammarch Wells.
	a Pembroke	53	16th	39	12th	50·9	41·7	46·5	+ 1·4	33	1	7	2·04	+ 1·14	13·1	+ 2·8	24	+ 5	Pembroke.
	p Cardiff	52	10th	35	12th	49·1	38·7	44·1	+ 3·8	29	9	7	2·20	+ 1·19	*13·4*	—	*25*	—	*Cardiff.*
															13·1	*+ 2·4*	*24*	*+ 5*	*Tenby.*
	a Clifton	53	10th, 16th	39	10th, 12th	50·0	40·7	45·5	+ 3·8	30	4	7	2·47	+ 1·70	*13·3*	—	*25*	—	*Clifton.*
	a Shaftesbury M	50	16th	35	12th	47·6	37·9	42·9	+ 3·0	24	11	7	1·97	+ 1·20	*	*	*	*	*
	a Arlington	52	16th	37	12th, 16th	48·7	38·3	43·7	+ 2·2	27	10	7	2·10	+ 0·73	14·9	+ 3·1	27	+ 6	Newquay.
	a Cullompton M	53	16th	32	12th	50·4	35·2	43·1	+ 1·6	36	19	7	2·79	+ 1·94	9·7	+ 0·8	18	+ 1	Cullompton.
	a Portland Bill	53	10th, 15th	45	10, 11, 12th	51·6	46·3	49·1	+ 5·0	50	0	6	1·25	—	*15·3*	—	*28*	—	*Weymouth.*
	p Plymouth	53	12th	41	11th, 13th	51·5	43·1	47·5	+ 3·2	39	0	7	1·50	+ 0·52	16·0	+ 4·6	29	+ 8	Plymouth.
	p Falmouth	52	16th	41	11th, 14th	50·5	43·1	47·0	+ 1·5	35	0	7	1·68	+ 0·38	17·4	+ 4·7	32	+ 9	Falmouth.
															15·7	—	*28*	—	*Salcombe.*
															19·3	*+ 7·1*	*35*	*+13*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	52	16th	36	10th	46·7	38·9	43·0	+ 0·4	20	9	6	1·65	+ 0·92	*	*	*	*	*
	a Blacksod Point	54	16th	35	15th	48·1	39·4	43·9	− 0·2	24	7	5	1·40	+ 0·10	*	*	*	*	*
	p Markree Castle	53	13th	31	14, 15, 16th	47·3	35·1	41·4	+ 0·5	15	29	6	2·33	+ 1·31	5·7	− 2·5	11	− 5	Markree Castle.
	a Birr Castle	53	16th	34	10th	47·9	36·4	42·4	+ 1·3	26	16	6	1·38	+ 0·67	*11·8*	*+ 1·2*	*23*	*+ 2*	*Birr Castle.*
	p Armagh — b, East.	50	16th	36	11, 12, 16th	46·1	37·8	42·1	+ 1·5	18	12	6	1·76	+ 1·11	9·3	+ 0·3	18	+ 1	Armagh.
	a Donaghadee	52	16th	34	10th	47·9	37·9	43·1	+ 1·0	25	11	5	1·81	+ 1·11	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City	54	16th	37	11th	48·6	39·5	44·2	+ 1·1	26	7	5	1·71	+ 1·22	11·2	− 0·9	22	− 2	Phœnix Park.
	a Kilkenny	52	16th	33	10th	48·3	36·3	42·5	+ 1·3	27	16	7	2·15	+ 1·41	*	*	*	*	*
	a Waterford	55	16th	34	16th	51·3	36·9	44·4	+ 1·8	38	14	7	2·50	+ 1·54	*	*	*	*	*
	a Birr Castle	53	16th	34	10th	47·9	36·4	42·4	+ 1·3	26	16	6	1·38	+ 0·67	11·8	+ 1·2	23	+ 2	Birr Castle.
	a Foynes	54	16th	36	10th	48·3	38·1	43·4	0·0	26	11	7	1·33	+ 0·33	*	*	*	*	*
	a Cahir — b, West.	52	16th	34	10, 12, 14, 16	47·6	36·0	42·0	− 1·0	16	17	7	1·74	—	*	*	*	*	*
	a Killarney	53	12th, 16th	27	11th	48·4	37·4	43·1	− 0·8	27	13	6	2·09	+ 0·50	*	*	*	*	*
	a Valencia	53	16th	39	10, 11, 15th	49·6	41·1	45·5	− 0·5	28	3	7	2·07	+ 0·63	8·5	− 1·5	16	− 3	Valencia.
	a Roche's Point	51	16th	38	10th	48·7	41·1	45·1	0·0	25	3	7	1·79	+ 0·60	12·3	—	23	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	54	12th	41	12th	51·7	44·0	48·0	− 0·1	42	9	7	1·27	+ 0·37	12·3	+ 0·3	22	+ 1	Scilly.
	a Jersey, St. Aubins	54	12, 13, 16th	42	11th	53·0	44·6	49·0	+ 3·8	49	0	7	1·89	+ 0·99	5·9	− 8·6	11	− 15	St. Heliers.
	a Guernsey	54	13th	42	10th, 11th	51·7	43·4	47·7	+ 1·8	40	0	7	2·13	+ 1·15	14·7	+ 4·5	26	+ 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 12·6 hrs.* (+ *1·1 hrs.*), *23* % (+ *2* %); *Bournemouth, 16·2 hrs., 30* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Baltasound	—	—	41·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	42·7
	Crathes	2	24	38·3	41·0
	Balmoral	3	20	—	—
	Marchmont	3	27	37·4	—
2.	Cockle Park	2	26	38·5	41·3
	Durham	0	33	—	—
	York	—	—	40·7	45·1
	Hull	1	28	39·4	45·1
	Lincoln	—	—	38·1	44·1
	Rauceby	5	25	40·4	46·1
3.	Norwich	6	22	—	—
	Yarmouth	—	—	40·3	46·0
	Lowestoft	3	28	40·4	45·3
	Cambridge	4	24	40·0	45·3
	Clacton-on-Sea	?1	29	43·2	47·4
	Southend	3	28	42·7	—
	Tottenham	0	31	—	47·1
4.	Harrogate	0	31	39·7	42·4
	Huddersfield	2	30	38·9	44·3
	Buxton	5	25	38·5	45·1
	Sheffield	2	28	39·8	44·7
	Nottingham	3	29	39·1	42·8
	Birmingham	2	30	41·9	46·7
	Oxford	2	28	—	—
	Hereford	2	30	—	—
	Cirencester	2	28	41·4	45·3
	Bath	—	—	42·1	45·9
5.	Margate	—	—	42·6	44·3
	Greenwich	4	26	—	—
	Westminster	3	27	—	—
	Kew	4	24	41·0	46·3
	Canterbury	3	22	42·5	43·3
	Tunbridge Wells	3	23	40·6	—
	Wisley	4	27	41·6	45·8
	Worthing	2	24	43·5	47·9
	Portsmouth	1	29	43·7	47·3
6.	Glasgow	1	30	—	—
	Rothesay	—	—	—	44·2
	Colmonell	0	33	—	—
6.	Dumfries	1	29	39·6	43·0
	Douglas	0	35	—	—
7.	Aspatria	0	31	40·5	44·6
	Newton Rigg	5	30	40·0	43·1
	Burnley	0	31	39·5	44·2
	Southport	0	31	39·7	43·1
	Manchester City	0	33	40·6	45·8
	Bettws-y-Coed	0	34	41·9	45·7
8.	Llangammarch Wells	4	27	42·1	47·0
	Cardiff	2	27	41·4	45·9
	Clifton	0	32	—	—
	Plymouth	0	31	45·3	—
9.	Armagh	0	32	40·6	44·8
	Markree	2	25	40·8	46·1
10.	Dublin, Trin. Coll.	5	25	41·7	45·2
11.	Guernsey, Brooklyn	0	35	46·2	49·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, N.	Lerwick	46	46	46·0
	Kirkwall	40	40	40·0
	Wick	?	?	?
SCOTLAND E.	Cromarty	44	42	42·8
	Pennan Bay	44	43	43·3
	Aberdeen, Cove Bay	46	46	46·0
ENGLAND, N.E.	Burnmouth, Berwick	43	42	42·1
	Scarborough	44	40	42·8
ENGLAND, E.	Shipwash Lightship	47	45	45·9
	Margate‡	46	44	44·8
ENGLAND, S.E.	Eastbourne‡	47	46	46·9
SCOTLAND, W.	Lamlash	47	46	46·5
	Ballantrae	44	40	42·4
	Port Erin	49	48	48·5
ENGLAND, S.W.	Newquay	48	47	47·1
	Scilly	50	47	49·0
	Plymouth‡	47	45	46·0
	Salcombe	49	47	48·2
IRELAND, N.W.	Sheephaven	46	45	45·2
	Teelin	46	44	44·4
IRELAND, S.W.	Cleggan	50	44	45·3
	Seafield	47	45	46·4
IRELAND, E.	—	—	—	—

‡ Only one observation each day.

Registering Balloon Ascents.

Height km.	1 Mungret College, Limerick. 15 m. November 7th, 1911. 7.10 a.m. Pressure Mgd. per c².	Temperature A°.	2 Pyrton Hill, Oxon. 153 m. November 9th, 1911. 7.9 a.m. Pressure Mgd. per c².	Temperature A°.	Humidity. %	3 Pyrton Hill, Oxon. 153 m. Dec. 5th, 1911. 3.30 p.m. Wind. °	4 Pyrton Hill, Oxon. 153 m. Dec. 6th, 1911. 3.15 p.m. Wind. °	5 Pyrton Hill, Oxon. 153 m. Dec. 8th, 1911. 9.40 a.m. Wind. °	Height. km.
Ground.	·998	279·5	·978	275	100	225 3	160 3	170 2	Ground.
0·5	·940	278	·937	274	100	270 6	180 10	180 3	0·5
1·0	·884	274·5	·881	270	100	270 8	185 11	190 4	1·0
1·5	·831	270·5	·827	267	95		190 13	200 4	1·5
2·0	·781	268 266	·777	263	90		190 14	195 4	2·0
2·5	·733	265 262	·728	259	75		195 14	205 4	2·5
3·0	·688	261 259	·683	254	70		200 14	220 4	3·0
3·5	·644	256 255	·636	250	70	Lost in Cloud.	200 14	220 6	3·5
4·0	·603	251·5	·596	247	70		215 15	225 6	4·0
4·5	·565	248					215 15	250 7	4·5
5·0	·527	243						270 11	5
6	·457	234						280 10	6
7	·395	226						280 17	7
8	·340	221					Lost in Haze.	280 20	8
9	·291	223						260 19	9
10	·251	223						270 16	10
11	·217	226						270 14	11
12	·187	225							12
13	·161	222						Lost behind Cloud.	13
14	·137	220							14
Max. Height (km.)	14·2		4·3						
Minimum temperature, Hc ; Tc	220° at 14·0 km. 7·8 kms. 220°		246° at 4·3 km.						
Place of fall.									
Distance (km.)	54.		20						
Direction.	143°.		70°						
Gradient, °C per 100 m.	0·76°.		—						
Ground to	7 km.		—						

Notes :—

1.—Cloudy. Balloon disappeared in S.E. The temperatures are somewhat doubtful, as the zero was found to be altered on the return of the instrument.

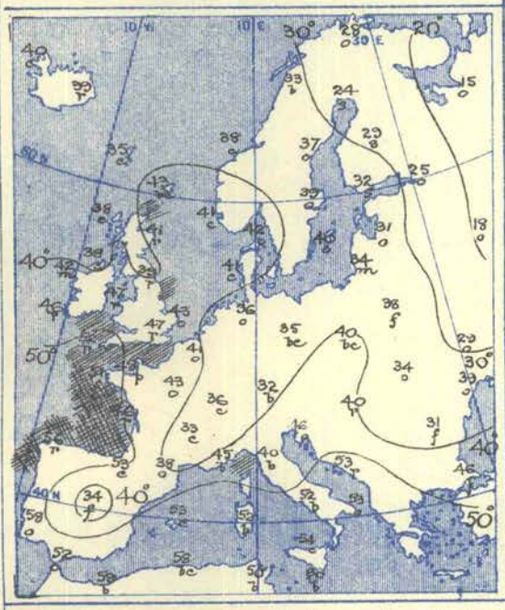
2.—Weather overcast. Light E. wind on surface, S at 500m. The balloon burst prematurely.

3, 4, 5.—One Theodolite. Five registering balloons were sent up. On December 8th the string broke and the balloon went off without the instrument. On the mornings of December 6th and 7th (7.0 a.m.) it was too dark to use a theodolite. On the 7th owing to a S.S.E. gale the balloon was started with very great difficulty.

Sunday, 10th December, 1911.

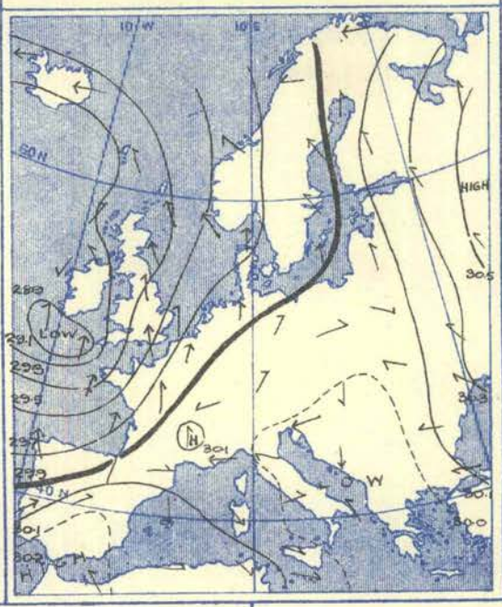
Temperature and Weather.

7 a.m.

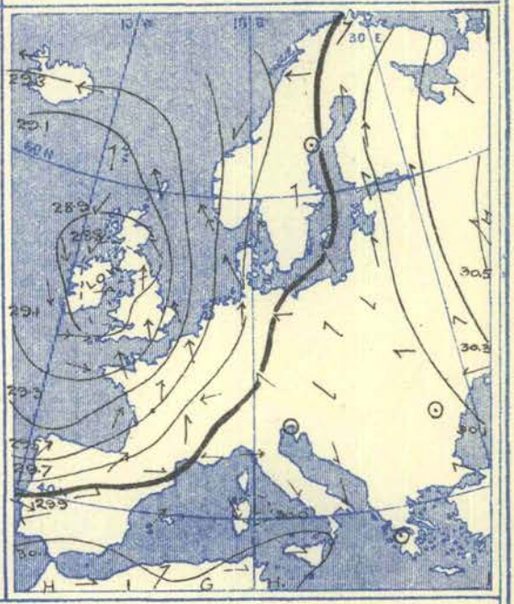


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough and rainy over these Islands, Brittany, and the Bay of Biscay. Very cloudy or overcast in most other parts of our area, with rain or snow in a few scattered places in Scandinavia, rain at Lesina and over a considerable portion of central Europe. Fair to bright at many stations on the shores of the Mediterranean. Heavy rain experienced later in the United Kingdom and a large area on the Continent; about 1·2 in. at Holyhead and Nantes.

Temperature risen in most parts of these Islands and France. Readings in morning 45° or above in the south of Ireland and over the greater portion of England, above 50° on the shores of the Mediterranean, and as high as 60° at Malta; below 32° in the east and north-east of our area, and as low as 15° at Archangel. Rising during day to about 50° at many places in the United Kingdom and France and to a little above 60° in the south of our area. Remaining below 45° at various German and Austrian stations and also at Turin, and only touching 45° at Madrid.

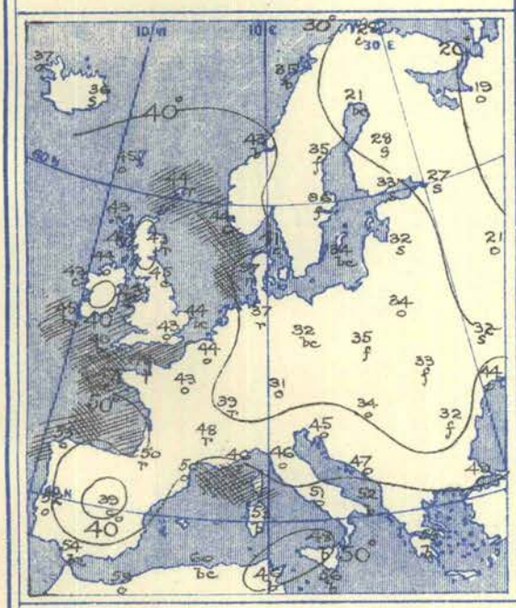
Wind in morning showing a complete cyclonic circulation over these Islands and their vicinity; Southerly current blowing a gale over the Bay of Biscay and the Channel as early as sunrise, and a very strong breeze in the south and south-east of England. Violent gales experienced later in day or at night in most parts of England and Wales, and also on the east and north-east coasts of Scotland. Increasing to a gale from the Southward on the south-west coast of Norway, and blowing a gale from the North-Westward on the Atlantic as far west as the 28th meridian.

Barometer in morning below 28·9 in. in a large depression having its minimum off the south-west of these Islands; above 30·5 in. in central Russia and above 30·2 in. in Morocco. Depression moving Northward during day and apparently increasing in intensity. Gradient becoming less steep in the south-west of these Islands, but increasing over the Spanish Peninsula, as well as over the North Sea region. No change of importance taking place within the main high pressure system.

Monday, 11th December, 1911.

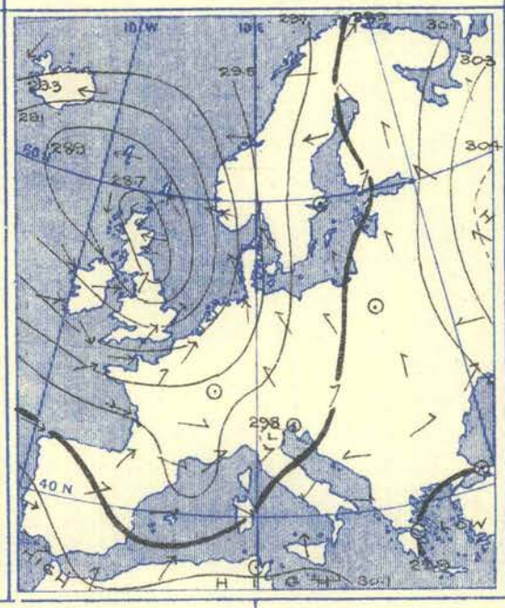
Temperature and Weather

7 a.m.

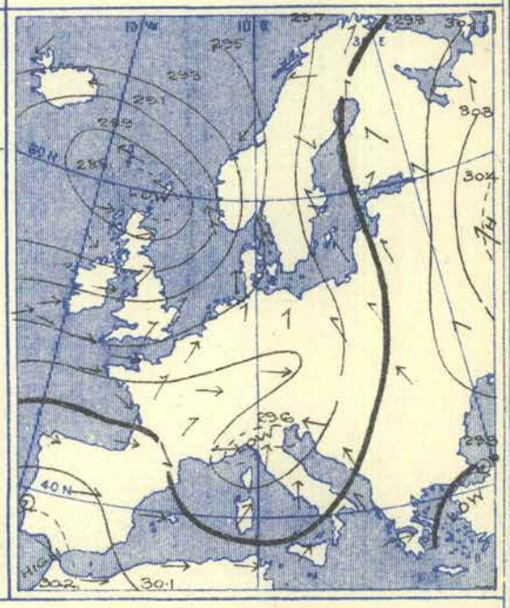


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning mainly cloudy or overcast in the United Kingdom and the adjacent countries, with rain in several localities. Rain or snow general in the region of the Gulf of Finland, and rain on the Riviera, in Corsica, and the Balearic Isles. Fair to bright in the north-west of Norway and also in Algeria, and the south of Italy. Rain experienced later in the greater portion of our area. More than 1·1 in. at Trieste and Monaco, and 1·0 in. at Nice. A thunderstorm occurring at Newquay.

Temperature fallen in most regions. Readings in morning ranging from about 20° in the north-east of Russia and between 35° and 40° over the greater part of the Continent to 59° at Palma, and to 60° at Algiers. Maxima during day below 50° in almost all parts of the United Kingdom and France, and below 40° in many parts of Germany and Austria. Thermometer rising to above 60° at many stations in the far south, and touching 72° at Cape de Garde.

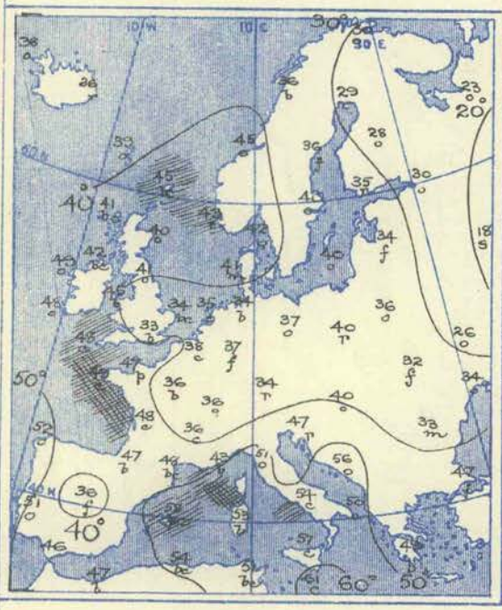
Wind in morning cyclonic very generally. Westerly current strong to a gale on our western and southern coasts and the Bay of Biscay and that from between South and South-East equally strong over the North Sea region. Moderate to strong winds from West or South-West prevailing at some Mediterranean stations. Increasing to a gale later in Shetland and continuing to blow with gale force beyond the North Sea.

Barometer in morning below 28·7 in. in a complex depression covering the north-east of England and the greater portion of Scotland, and relatively low over the Gulf of Lion. Above 30·4 in. in a high pressure over Russia, and above 30·2 in. at the Azores. Main depression moving Northward during day, and little alteration occurring in the general distribution of pressure.

Tuesday, 12th December, 1911.

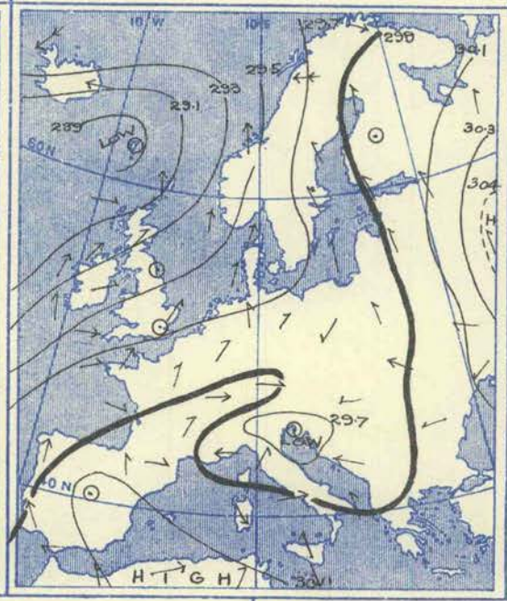
Temperature and Weather.

7 a.m.

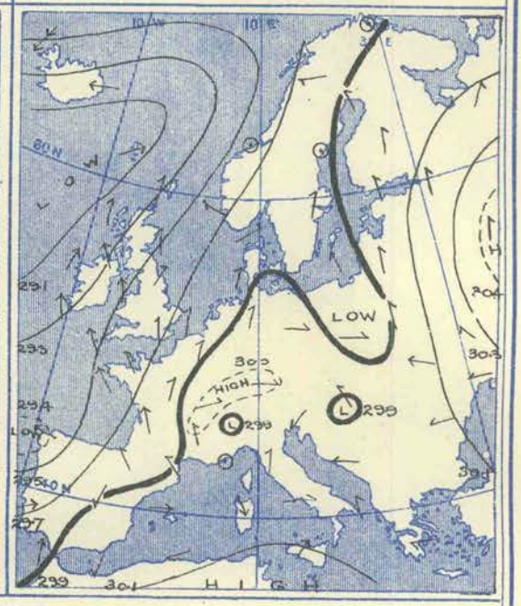


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over a considerable area in the extreme south; generally cloudy or overcast elsewhere, with rain in isolated places and snow at Moscow. Rain later in the west and north of these Islands and in many central and southern regions, 0·9 in. at Lesina, 1·1 in. at Malaga, and 1·7 in. at Gibraltar.

Temperature fallen in most regions. Morning readings ranging from above 45° in the far west and south-west of the United Kingdom and above 55° at some stations on the shores of the Mediterranean to below 40° over our area as a whole, to 20° at Kharkoff, and to 18° at Moscow. Maxima during day 50° or slightly higher at several of our own stations and also in many parts of France; about 60° at numerous places on the Mediterranean. Below 40° in central Europe and only 41° at Madrid.

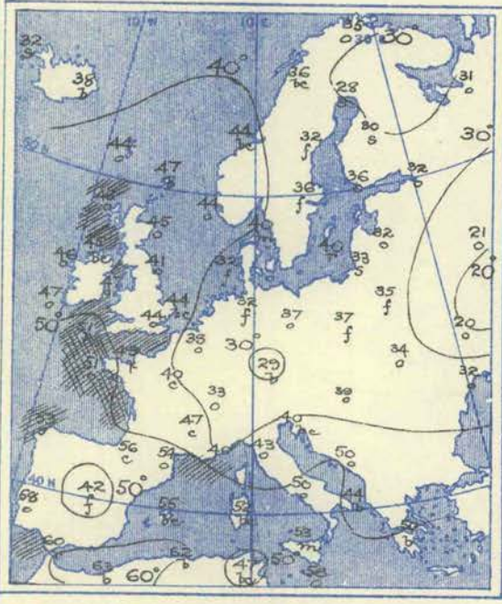
Wind in morning cyclonic very generally, a complete circulation, light to strong or high over Italy and its vicinity. South-Westerly current light to fresh in these Islands, but an Easterly gale prevailing at Bodö. A fresh to strong Southerly breeze on the Atlantic coast of the Spanish Peninsula. Increasing in force from the Southward or South-Eastward during day on our south-west coasts, and reaching the force of a strong to whole gale during night.

Barometer in morning above 30·4 in. in central Russia and relatively high in Algeria and central Spain. Below 29·7 in. in a depression over the Gulf of Venice and its neighbourhood, and below 28·9 in. in another system between Shetland and Iceland. Italian disturbance nearly dispersing during day, but a very deep system reaching a position off the south-west of England during night. Pressure increasing over the greater part of Russia.

Wednesday, 13th December, 1911.

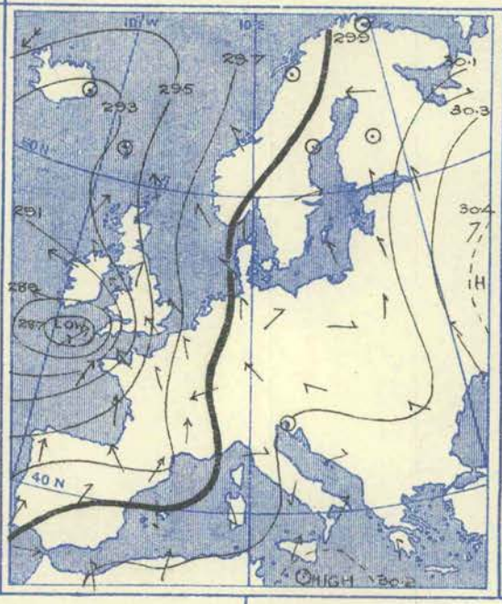
Temperature and Weather.

7 a.m.

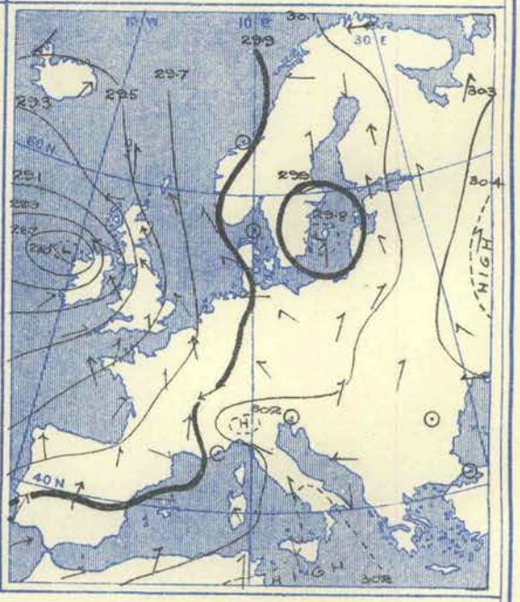


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rough and rainy in the south-west of these Islands and in Brittany; cloudy or overcast in most other regions except Greece and Algeria, with rain in some southern localities, and snow at several stations in northern Europe. Rain experienced later over the United Kingdom and a very large area on the Continent; more than 0·5 in. at some of our own stations, and 0·9 in. at San Fernando, Gibraltar, and Nice.

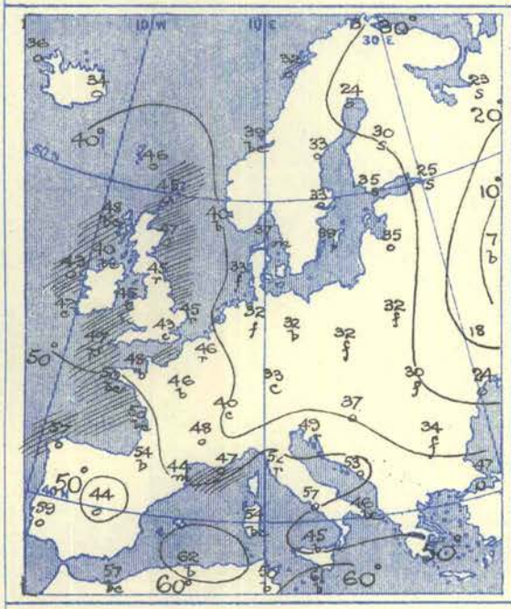
Temperature risen in these Islands and to the Southward as far as Algeria, fallen in Italy. Readings in morning as low as 6° at Kharkoff, 20° at Kieff, and 21° at Moscow; below 40° over the greater portion of the Continent. Above 45° in many parts of this country, above 50° at most places in the extreme south; 62° at Algiers, and 63° at Memours. Rising to 50° in central Ireland and some English localities, to about 60° in the south of France, and to above 70° in Algiers. Thermometer remaining below 40° at several stations in central Europe, and rising no higher than that figure at Turin.

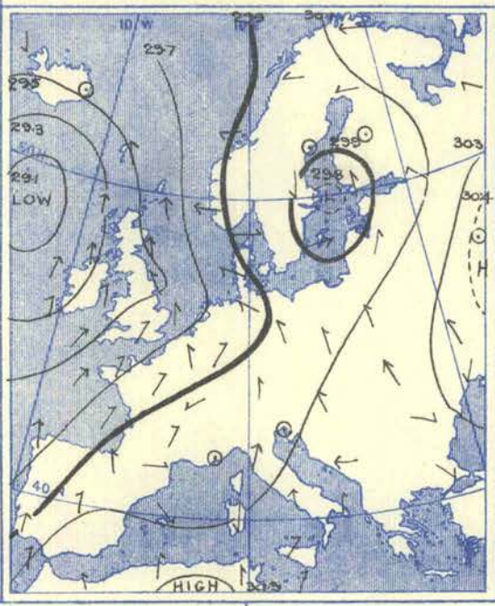
Wind in morning showing a cyclonic movement generally; Southerly current strong to a gale in Portugal, on the Bay of Biscay, and the south-west coast of England, and that from the South-Eastward fresh to high on the St. George's Channel and Irish Sea. Direction rather variable and force light over the major portion of the Continent. Reaching the force of a gale or strong gale later from the South-Eastward on many parts of our coasts, but decreasing in force on the south-west coast.

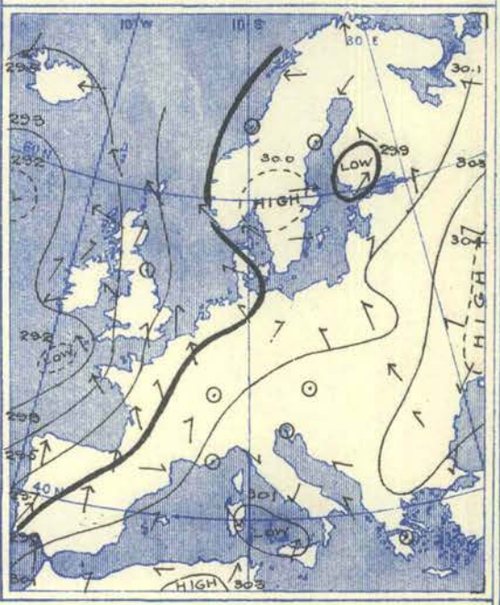
Barometer in morning below 28·7 in. in a depression centred near Scilly and below 29·9 in. in a very shallow system over the Baltic. Above 30·5 in. in the south-east of Russia, and above 30·2 in. at Malta. Main depression continuing very deep and moving to the north-west of Ireland during day. Pressure increasing in the south-east of Europe, but decreasing between Portugal and the Azores.

Thursday, 14th December, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rainy in several parts of Great Britain and Belgium, as well as at Cassel and in northern Italy. Snow falling in Finland and the adjacent portion of Russia. Much cloud prevailing over our area generally, but sky clear in Algeria and the Mediterranean Islands. Rain falling later over these Islands and a large district on the Continent; more than 0·5 in. at some of our own stations and as much as 1·8 in. at Lesina.

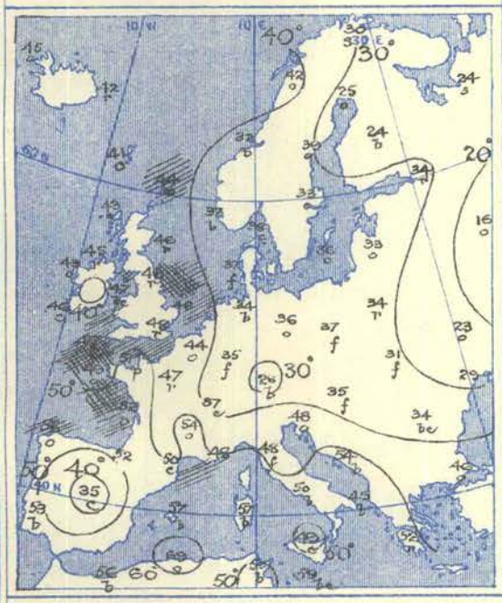
Temperature fallen in Russia, changed irregularly elsewhere. Morning readings below 20° in the east of our area; as low as 3° at Kharkoff and 7° at Moscow. About 32° at some stations in central Europe and Scandinavia, 42° in many British localities, above 50° at various places in the south of Europe, 61° at Malta, and 62° at Algiers. Maxima about 50° in some parts of these Islands, between 50° and 60° over a wide area in southern Europe, above 60° in several localities, 70° at Palermo, and 73° at Cape de Garde.

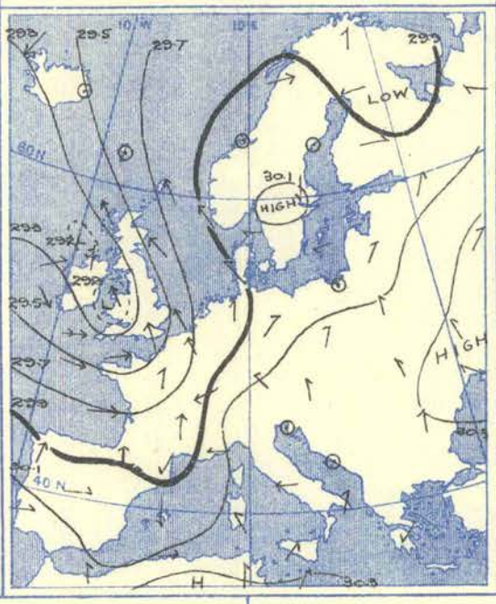
Wind in morning high from the Southward in the north of these Islands and light to strong from between South-West or South-East over the Kingdom generally. Strong from the Southward on the Atlantic coast of the Peninsula. Light or moderate from various quarters over Europe as a whole. Increasing to a gale later on a few parts of our coasts and continuing strong on the coasts of Portugal.

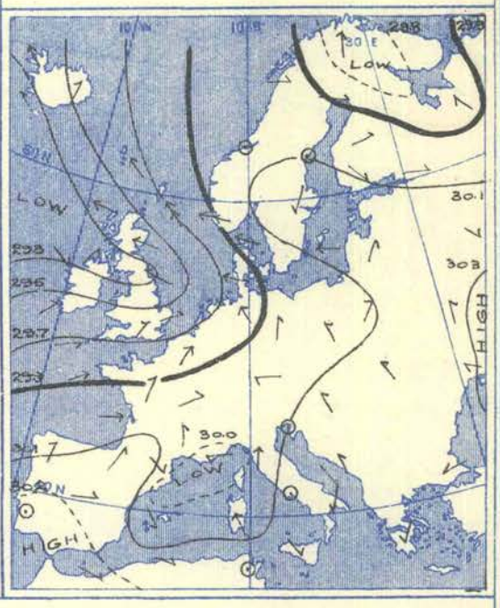
Barometer in morning ranging from above 30·4 in. in an anticyclone over Russia and above 30·3 in. in central Algeria to below 29·6 in. in a depression to the westward of Portugal, and to below 29·1 in. in another on the Atlantic to the north-westward of Ireland. Below 29·8 in. in a shallow system near Stockholm. South-western disturbance approaching these Islands by evening and gradient increasing considerably on our south-west coasts.

Friday, 15th December, 1911.

Temperature and Weather	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rainy over most parts of the United Kingdom and at some French and Belgian stations, as well as at St. Petersburg, Warsaw and in Greece. Rain experienced later in these Islands, the nearer countries of the Continent, and in Italy and Switzerland. An inch at Lugano, 1·4 in. at Nice, and 1·6 in. at Cagliari; about 0·8 in. at Aberdeen.

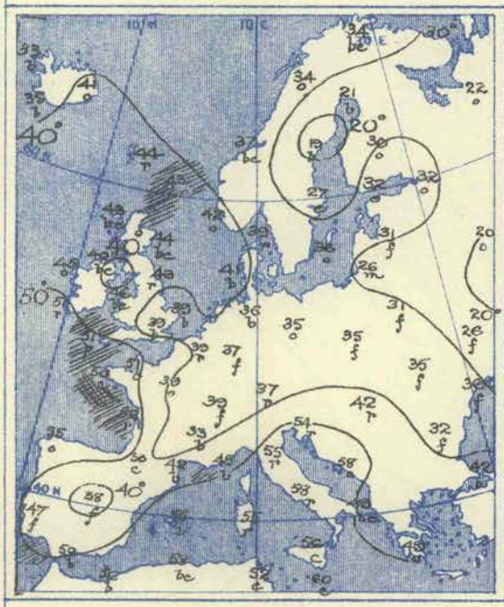
Temperature risen in England, fallen in most other regions. Readings in morning ranging from 69° at Algiers, 60° at Malaga, and above 50° at many other stations in the south to below 40° over the greater part of the Continent, to below 32° very generally in the north-east and east, to 16° at Moscow, and to 2° at Kharkoff. Maxima during day 75° at Algiers, 70° at Palermo, 69° at Malta, and above 60° over a considerable area in the south. About 50° in these Islands and the north of France, below 40° at several stations in central Europe.

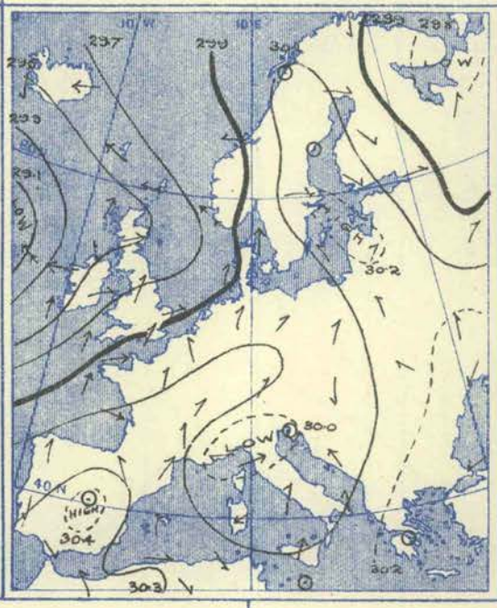
Wind in morning cyclonic over these Islands and the south-western countries. Strong to a gale in some parts of England, but mostly light or moderate on the Continent. Light anticyclonic airs prevailing in northern and eastern Europe. Wind increasing to a gale later from the South-Eastward on our north-east coasts and at Skudesnaes.

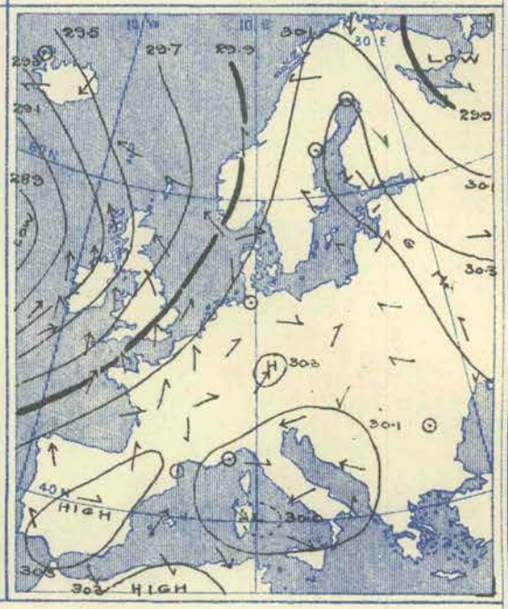
Barometer in morning above 30·5 in. in the south-east of Russia and above 30·1 in. in the south of Scandinavia. Below 29·2 in. in a complex disturbance over our western districts. Depression moving northward during day, but no important change occurring in the general distribution of pressure. Another disturbance beginning to affect the west of Ireland during night.

Saturday, 16th December, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning rainy or showery in some parts of France, Italy, and the south and south-west of these Islands and snow or rain falling in some parts of northern Europe. Variable elsewhere; fair in several regions. Rain experienced later in the United Kingdom, the north of France, Italy, the Mediterranean Islands, and at Trieste; about 0·5 in. in the west and south of Ireland, 0·8 in. at Brindisi, and 1·0 in. at Trieste. Thunder and lightning occurring at Donaghadee.

Temperature fallen over our area generally. Readings in morning as low as 8° at Kharkoff, below 32° at most stations in the east and north of the Continent, and below 40° in many parts of the United Kingdom. Above 50° very generally in the Mediterranean region; 60° at Malta. Thermometer subsequently rising to above 50° in most parts of these Islands and most of France and to above 60° on many shores of the Mediterranean. Maxima below 45° in Austria and Germany, and below 32° in the north of the Continent.

Wind in morning light or moderate from the Southward or South-Westward over the United Kingdom and its vicinity as a whole, but blowing a gale from the South-Eastward at Skudesnaes and Lerwick. A complete cyclonic circulation of light to fresh winds prevailing over Italy. Increasing considerably in force by evening in these Islands; gale continuing on the south-west coast of Norway.

Barometer in morning above 30·3 in. in the south-east of Russia and also in Morocco and Spain; below 29·8 in. in a depression over the White Sea, below 30·0 in. in another over the north of Italy, and below 29·0 in. in a deep system on the Atlantic some distance to the westward of Ireland. Not much change occurring during day in the general situation. Atlantic disturbance extending further over this country, and Italian depression moving Southward.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E. 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). See also p. 404.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1911.												
1	Dec. 4th, 2.47 p.m. to 3.32 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	278·0 80% 225°, 5	277·5° 80% 235°, 9	275° 85% 250°, 12	272° 95% 260°, 13	269° 70% 270°, 14			269° 50% 270°, 14	1,550	Clear with a few fleecy clouds at about 1300 m. Very steady wind.
2	Dec. 6th, 10.30 a.m. to 11.30 a.m.	Aldershot.	Temperature. Humidity .. Wind	279·0° 90%	280° 80%	278·5° 80%						500	
3	Dec. 6th, 11.20 a.m.	* Aberdeen.	Wind	215°, 2·7	231°, 4·9	238°, 11·8	249°, 5·7	251°, 4·1	243°, 9·0	234°, 9·3	240°, 13·2	2,847	Two theodolites observed for 19 minutes. Lifting power 50·5 grammes. Sky quite clear.
4	Dec. 7th, 11.0 a.m.		Wind	215°, 1·3	243°, 4·1	266°, 9·6	269°, 17·9 at 800metres					950	Two theodolites to 800 mstres. Lifting power 41 grammes. Sky clear.
5	Dec. 8th, 11.3 a.m.		Wind	200°, 2·7	194°, 3·8	186°, 6·0	184°, 11·8 at 820metres					847	Two theodolites to 820 metres. Lifting power 11 grammes. Balloon lost in haze.
6	Dec. 9th 10.50 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	277° 90% 250°, 9	276·5° 90% 250°, 15	274° 90% 260°, 17					273·5° 90% 270°, 18	600	Clear. Strong gusty wind.
7	Dec. 11th, 2.48 p.m. to 3.0 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	278° 90% 225°, 9	277·5° 90% 230°, 12	275° 90% 245°	17°				274·5° 90% 245°, 19	600	Kite drawn in to avoid squall.
8	Dec. 13th, 11.5 a.m.	*Aberdeen.	Wind	146°, 8·8	163°, 10·4	157°, 18·7	157°, 36·7					1,197	Two Theodolites. Lifting power 40·5 grammes. Velocity at 1,000 m. doubtful. At 750 m. results gave 152°, 14·7.
9	Dec. 15th, 3.25 p.m. to 4.0 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	279·5° 80% 250°, 11	279° 80% 250°, 17	277·5° 80% 250°, 20						550	Clear. Very strong wind.
10	Dec. 16th, 10.25 a.m. to 11.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	277·5° 95% 160°, 5	277·5° 90% 170°, 9	278·5° 80% 200°, 12	275° 80% 215°, 11				272° 90% 225°, 10	1,250	Overcast. Clouds not reached. Upper clouds from W.N.W. Inversion of 3° at 150 m.

* Observation with two Theodolites at Stations *A* and *B*.—*A* Woodside, 32·6 m. *B* King's College, 35·4 m., distant 920 m., 15°, from *A*.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	1	—	—	—	—	1	1	1	1	1
Area of Surface (sq. metres) ..	8	—	—	—	—	4	4	—	4	8
Capacity of Balloon (cub. metres) ..	—	—	0·05	0·05	0·015	—	—	0·05	—	—
Length of Wire (metres)	2,300	—	—	—	—	600	600	—	500	1,300

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 51. FIFTY-FIRST WEEK, SUNDAY, DECEMBER 17TH, TO SATURDAY, DECEMBER 23RD, 1911. [Price 6d. Annual Subscription, post paid, £1 10s. 0d.

I.—General Remarks.

Weather remained in a very unstable condition. Over the greater part of the Kingdom rain was experienced daily, the falls sometimes continuing during several hours. Thunderstorms were reported at sundry places in Ireland on the 17th or 18th, and at some stations on both dates. A thunderstorm occurred also in the vicinity of Crathes on the 17th, and lightning in some other Scottish localities.

Temperature was much above the average, the excess ranging from 2°·5 in Ireland S. to at least 5° over the greater part of England, and to nearly 7° in England E., S.E. and the Midland Counties. The highest of the maxima were registered early in the week, mostly on the 17th or 18th, and ranged from 58° in England N.W., to 54° in several other English districts. The lowest of the minima were recorded very generally on the 23rd, and varied from 25° in Scotland E., and 28° in Scotland W. and Ireland S., to 35° in England S.E., and to 43° in the English Channel. As a rule the nights were very mild for the time of the year. The lowest grass readings reported were 20° at Crathes and Newton Rigg, 22° at Balmoral, Aspatria, Burnley and Dublin, and 23° at Llangammarch Wells.

Mean Temperature of the Sea.—As a whole the water had about the same temperature as during the corresponding week of last year. The means for the week ranged from 50° at Salcombe to 43° at Burnmouth and Cromarty, and to 42° at Kirkwall.

Rainfall was much in excess of the average. In England S.E. the agregate was four and a half times greater than the normal. Individual falls of nearly an inch were rather common, and on various dates an inch was measured in several parts of the Kingdom, the highest figures being 1·07 in. at Plymouth on the 20th, and at Crieff on the 23rd.

Bright Sunshine exceeded the average in Ireland N. and also in Scotland N. and E, while in Ireland S. it equalled it. Elsewhere it was below the normal. The percentage of the possible duration ranged from 23 in Ireland N., to 9 in England S.E., and to 5 in Scotland W. and England N.W.

Barometer and Wind.—The general distribution of pressure was again favourable for winds from South and South-West, and as the extension eastward of a large low pressure area on the Atlantic and the passage of secondary systems caused the gradient to steepen, the wind was mostly fresh or strong, and occasionally reached the force of a gale. As a rule the gales were more frequent on our south and south-west coasts and over the Bay of Biscay than elsewhere, but they sometimes extended to the north and east also. The Westerly gale experienced over the Bay on Thursday was of exceptional violence.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 396.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Very unusual
	Rainfall ...	Moderate	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Abundant	Abundant	Moderate	Scanty	Moderate	Scanty	Scanty	Scanty	Moderate	Abundant	Moderate	Moderat

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 3 weeks from Dec. 3rd, 1911.	Warmth ...	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 1	1 * 1	1 * 0	1 * 0	1 * 1	0 * 1	2 * 0
	Rainfall ...	0 * 0	2 * 0	2 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0
	Sunshine ...	2 * 1	2 * 1	1 * 0	2 * 1	2 * 0	1 * 1	1 * 1	1 * 1	1 * 0	2 * 0	1 * 0	1 * 0

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTY-FIRST WEEK—December 17th to December 23rd, 1911.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	57	30	47·1	39·4	43·4	+ 4·7	21	+ 13	7	−24	7	+ 2	1·39	+0·19	7	+ 3	15	+ 6
Eastern																		
1. SCOTLAND, EAST	56	25	46·7	37·6	42·3	+ 5·0	21	+ 14	12	−29	5	+ 2	1·02	+0·45	10	+ 3	21	+ 7
2. ENGLAND, N.E.	54	29	47·4	39·4	43·6	+ 5·1	22	+ 14	7	−26	6	+ 2	0·72	+0·23	7	− 1	13	− 3
3. ENGLAND, EAST	54	33	48·1	41·7	45·0	+ 6·9	22	+ 14	1	−37	7	+ 4	1·28	+0·93	5	− 4	10	− 8
4. MIDLAND COUNTIES	54	32	48·5	40·4	44·6	+ 6·6	25	+ 16	4	−35	7	+ 4	1·50	+1·04	6	− 2	11	− 4
5. ENGLAND, S.E.	54	35	50·1	43·5	47·0	+ 6·8	35	+ 21	0	−27	7	+ 4	2·20	+1·72	5	− 5	9	− 9
Western																		
6 SCOTLAND, WEST	55	28	47·3	40·0	43·8	+ 3·8	21	+ 10	6	−20	7	+ 3	1·74	+0·64	2	− 4	5	− 8
7. ENGLAND, N.W.	58	30	48·6	41·6	45·2	+ 5·5	24	+ 13	1	−26	7	+ 4	1·67	+1·02	3	− 4	5	− 8
8. ENGLAND, S.W.	54	30	50·3	43·3	46·9	+ 5·0	34	+ 16	0	−18	7	+ 3	2·70	+1·79	8	− 2	14	− 4
9 IRELAND, NORTH	55	29	48·1	39·3	43·9	+ 3·0	25	+ 12	8	−14	6	+ 1	1·23	+0·42	12	+ 4	23	+ 7
10. IRELAND, SOUTH	57	28	49·3	40·8	45·2	+ 2·5	27	+ 5	3	−14	7	+ 3	1·98	+0·97	10	0	19	0
11. ENGLISH CHANNEL	57	43	53·2	47·2	50·3	+ 3·3	58	+ 28	0	− 5	7	+ 2	1·96	+1·24	11	− 2	20	− 3

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 3 Weeks, December 3rd to December 23rd, 1911.

0. SCOTLAND, NORTH	57	26	*	*	*	*	47	+ 20	46	−42	18	+ 2	3·97	−0·19	19	+ 6	14	+ 4
Eastern																		
1. SCOTLAND, EAST	56	21	*	*	*	*	31	+ 7	76	−37	16	+ 3	3·36	+1·33	29	+ 8	21	+ 6
2. ENGLAND, N.E.	54	29	*	*	*	*	37	+ 9	59	−30	17	+ 6	2·96	+1·34	32	+ 6	22	+ 5
3. ENGLAND, EAST	55	27	*	*	*	*	55	+ 24	45	−57	19	+ 7	3·12	+1·77	34	+ 5	21	+ 3
4. MIDLAND COUNTIES	54	26	*	*	*	*	59	+ 26	53	53	19	+ 8	4·28	+2·68	38	+ 13	24	+ 8
5. ENGLAND, S.E.	54	24	*	*	*	*	79	+ 29	34	−37	20	+ 8	5·50	+3·71	39	+ 8	24	+ 5
Western																		
6 SCOTLAND, WEST	55	28	*	*	*	*	45	+ 6	41	−26	20	+ 6	5·87	+2·17	24	+ 3	16	+ 2
7. ENGLAND, N.W.	58	29	*	*	*	*	56	+ 17	33	−37	19	+ 6	4·87	+2·53	27	+ 5	18	+ 3
8. ENGLAND, S.W.	57	25	*	*	*	*	89	+ 26	18	−31	20	+ 6	7·17	+4·04	44	+ 13	27	+ 8
9. IRELAND, NORTH	55	29	*	*	*	*	56	+ 14	50	−14	18	+ 2	4·61	+2·01	36	+ 10	24	+ 6
10. IRELAND, SOUTH	57	26	*	*	*	*	68	− 2	46	− 2	21	+ 7	6·27	+3·22	37	+ 5	23	+ 3
11. ENGLISH CHANNEL	57	35	*	*	*	*	132	+ 31	0	−12	21	+ 6	5·65	+2·92	48	+ 9	29	+ 6

THE YEAR.—Aggregates, &c., for the Period of 51 Weeks, January 1st to December 23rd, 1911.

0. SCOTLAND, NORTH	84	14	*	*	*	*	2251	+146	615	−147	220	−22	49·50	−1·67	1254	+149	29	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2491	+144	746	−139	194	− 5	28·61	−1·55	1471	+147	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3072	+438	504	−144	174	− 7	23·19	−1·18	1588	+149	36	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	3582	+543	518	−205	170	− 5	22·44	−0·69	1796	+228	41	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	3404	+451	567	−190	157	−16	21·47	−4·25	1585	+191	36	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3696	+379	455	− 64	155	−13	27·32	+0·93	1927	+340	44	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2837	+264	493	− 81	194	−15	42·76	−4·30	1537	+183	35	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3176	+362	398	−120	176	−17	33·19	−0·92	1671	+296	38	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3561	+385	358	− 43	173	−20	35·81	−1·90	1833	+282	42	+ 7
9. IRELAND, NORTH	86	18	*	*	*	*	2915	+224	426	− 54	188	−40	32·41	−5·06	1520	+247	35	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3415	+284	408	+ 41	206	+ 3	38·46	−0·67	1620	+183	37	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	4145	+381	137	+ 12	180	−27	32·83	+0·94	2024	+140	47	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceeding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ☙ is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p Baltasound S	49	18th	36	22nd, 23rd	45·5	39·4	42·6	—	15	7	7	1·58	—	5·8	—	16	—	Baltasound.
	a Lerwick	49	18th	37	23rd	46·7	42·1	44·5	+ 4·3	18	0	7	1·51	—	9·1	+ 3·3	22	+ 8	Deerness.
	a Stornoway	52	18th	34	23rd	47·3	41·0	44·3	+ 4·5	20	3	7	1·59	+ 0·14	3·9	- 1·4	9	- 3	Stornoway.
	a Castlebay, Barra Isd.	52	18th	40	23rd	48·6	43·6	46·2	+ 3·7	29	0	7	1·15	—	8·6	—	19	—	Castlebay.
	a Wick	50	18th	33	23rd	45·4	39·7	42·7	+ 3·7	15	6	6	0·22	- 0·45	*	*	*	*	* *
	p Strathpeffer.. ..	54	18th	33	22nd, 23rd	46·4	36·8	41·8	+ 4·7	12	23	5	0·18	- 0·60	7·2	+ 0·4	16	+ 1	Strathpeffer.
	p Glencarron .. S	57	18th	34	22nd	47·9	38·9	43·6	+ 6·6	24	9	7	1·79	- 0·59	*	*	*	*	* *
	p Fort Augustus S	57	18th	30	23rd	48·2	37·3	43·0	+ 4·6	27	13	7	1·31	+ 0·01	5·6	+ 3·2	12	+ 7	Fort Augustus.
	p Fort William S	54	18th	32	22nd	47·5	39·8	43·8	+ 3·8	22	6	7	3·13	+ 0·87	*	*	*	*	* *
1. SCOTLAND, E. — b, Mainland.	p Gordon Castle S	54	18th	32	22nd	47·7	36·1	42·1	+ 3·7	25	17	4	0·30	- 0·32	12·0	—	27	—	Gordon Castle.
	a Nairn	56	18th	31	23rd	46·4	36·7	41·7	+ 4·2	12	23	5	0·29	- 0·21	14·1	—	31	—	Nairn.
	a Aberdeen	50	18th	33	23rd	45·3	39·6	42·6	+ 4·5	14	7	5	1·04	+ 0·39	10·6	+ 2·2	24	+ 5	Aberdeen.
	a Balmoral	49	18th	25	23rd	47·1	34·3	41·0	+ 6·2	14	33	4	1·63	+ 0·91	8·0	—	18	—	Crathes S.
	p Crieff .. .. S	52	18th	31	22nd, 23rd	46·4	37·5	42·1	+ 4·5	20	13	6	2·07	+ 1·13	9·5	—	21	—	Balruddery.
	a Leith	56	18th	36	23rd	49·1	42·1	45·7	+ 6·2	26	0	6	0·52	+ 0·10	*	*	*	*	* *
	p West Linton.. S	52	18th	28	23rd	45·3	36·7	41·2	+ 4·5	9	22	7	1·26	—	6·1	—	13	—	West Linton.
	p Marchmont .. S	53	18th	31	23rd	45·9	37·7	42·0	+ 5·1	11	12	5	1·05	+ 0·48	6·1	- 2·0	13	- 4	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	53	18th	31	23rd	46·9	37·3	42·3	+ 3·6	22	13	5	0·96	+ 0·33	9·2	—	19	—	Cockle Park.
	a Shields	53	18th	32	23rd	47·6	39·3	43·6	+ 4·3	23	8	3	0·44	0·00	3·0	- 2·4	6	- 5	Newcastle.
	p Durham	50	17th, 18th	33	21, 22, 23rd	46·7	38·1	42·6	+ 4·8	21	11	5	0·77	+ 0·37	7·7	- 1·6	16	- 3	Durham.
	p Rounton .. M	52	17th	29	23rd	46·1	38·3	42·4	+ 4·8	18	10	6	0·65	—	*	*	*	*	* *
	p Scarborough.. M	52	17th	37	22nd	47·3	41·9	44·7	+ 5·1	19	0	6	1·03	+ 0·53	7·9	—	16	—	Scarborough.
	p York	53	17th, 18th	32	23rd	48·1	40·3	44·4	+ 6·2	24	5	6	0·74	+ 0·32	1·5	- 4·1	3	- 8	York.
	a Spurn Head	50	17th, 19th	26	22nd, 23rd	46·0	39·9	43·4	+ 3·6	19	6	5	0·46	+ 0·06	*	*	*	*	* *
b, South.	a Lincoln	54	17th	33	23rd	48·8	39·6	44·4	+ 6·5	27	7	7	0·70	+ 0·28	7·3	—	14	—	Skegness.
	a Fulbeck	53	17th	32	23rd	48·2	40·2	44·4	+ 6·7	24	5	7	0·75	+ 0·30	6·1	—	12	—	Rauceby.
															2·5	—	5	—	Lowestoft.
	p Cromer	—	—	—	—	—	—	—	—	—	—	7	0·74	—	5·2	—	10	—	Cromer.
3. ENGLAND, E. — a, North.	p Hillington .. M	53	17th, 19th	33	23rd	47·5	41·3	44·5	+ 6·8	20	2	7	0·97	+ 0·43	5·2	- 4·1	10	- 8	Hillington.
	a Yarmouth	52	17th	37	17th, 23rd	47·7	40·6	44·3	+ 5·6	22	4	7	1·22	+ 0·74	4·8	—	9	—	Yarmouth.
	a Norwich	52	17th	36	23rd	48·2	41·2	44·8	+ 6·3	23	2	7	1·25	—	*	*	*	*	* *
	p Geldeston	53	19th	36	23rd	47·8	42·0	45·0	+ 6·2	21	0	7	1·15	+ 0·69	5·2	- 5·6	10	-11	Geldeston.
	p Cambridge	54	17th, 19th	34	23rd	48·7	41·8	45·4	+ 7·3	25	1	6	1·24	+ 0·90	6·5	- 2·5	13	- 5	Cambridge.
b, South.	a Felixstowe	51	19th	35	23rd	47·6	41·0	44·4	+ 4·8	21	3	7	1·37	—	6·9	—	13	—	Felixstowe.
	a Clacton-on-Sea ..	49	17th, 19th	37	23rd	47·0	42·0	44·6	+ 5·5	18	0	6	1·22	—	6·4	—	12	—	Clacton.
	a Rothamsted ..	53	17th, 19th	34	23rd	48·8	40·3	44·7	+ 6·5	26	5	7	2·26	+ 1·73	5·6	- 3·8	11	- 7	Rothamsted.
	a Shoeburyness ..	53	19th	37	23rd	49·4	42·1	45·9	+ 6·2	27	0	7	1·26	+ 0·93	6·3	—	12	—	Southend.
	p Tottenham	54	17th	37	23rd	49·1	44·7	47·0	+ 7·7	35	0	7	1·43	—	2·8	—	5	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	51	17th, 18th	33	23rd	46·3	39·4	43·0	+ 5·3	18	7	6	0·63	+ 0·05	6·6	—	13	—	Harrogate.
	a Bawtry	53	17th, 18th	32	23rd	48·1	39·1	43·8	+ 5·6	25	8	6	0·87	+ 0·45	2·9	- 3·9	6	- 8	Worksop.
	p Buxton .. M	50	17th	32	23rd	44·8	38·1	41·6	+ 5·4	8	17	7	1·66	+ 0·48	4·1	—	8	—	Buxton.
	a Nottingham ..	54	17th	33	23rd	49·0	40·3	44·8	+ 6·2	27	5	7	0·66	+ 0·18	5·3	—	10	—	Nottingham.
	p Birmingham, Edgbn	51	17th, 18th	35	22nd	46·5	41·1	43·9	+ 5·6	17	3	7	1·62	+ 1·12	4·6	—	9	—	Birmingham.
	a Raunds .. M	54	19th	32	23rd	49·0	40·1	44·7	+ 6·5	27	5	7	1·34	—	*	*	*	*	* *
	a Oxford	54	19th	37	17th, 23rd	49·4	42·3	46·0	+ 6·7	28	0	7	1·75	+ 1·30	9·1	- 0·3	17	- 1	Oxford.
b, West.	a Cheadle .. M	50	17th, 18th	34	17th, 23rd	47·6	37·2	42·6	+ 5·2	24	13	7	1·23	+ 0·58	5·8	—	11	—	Sheffield.
	p Shrewsbury	53	17th, 18th	34	22nd	48·9	41·9	45·5	+ 5·1	25	0	6	1·97	—	*	*	*	*	* *
	a Hereford .. M	52	17th	32	23rd	47·7	40·6	44·3	+ 5·4	22	4	7	2·91	+ 2·40	*	*	*	*	* *
	a Cirencester	54	18th	33	22nd, 23rd	49·8	39·0	44·6	+ 6·4	31	8	7	2·11	+ 1·52	6·0	- 2·7	11	- 5	Cirencester.
	a Bath	54	17, 18, 19, 23	33	23rd	51·3	42·9	47·3	+ 7·1	37	0	7	2·36	+ 1·68	7·2	—	14	—	Bath.
															4·5	—	8	—	Ramsgate.
5. ENGLAND, S.E.	p Kew	54	17th	37	23rd	49·1	43·4	46·4	+ 6·9	31	0	7	1·44	+ 1·01	4·2	- 4·1	8	- 8	Kew.
	a Marlborough ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Marlborough.
	a Margate	53	17th, 19th	39	22nd	50·4	44·0	47·3	+ 7·0	37	0	7	1·25	+ 0·79	2·5	- 7·9	5	-15	Margate.
	a Wisley, Surrey ..	53	17th, 19th	35	23rd	50·6	43·4	47·1	+ 7·5	36	0	7	1·99	—	4·7	—	9	—	Wisley.
	a Swarraton .. M	52	19th	35	23rd	49·9	41·1	45·7	+ 7·1	30	3	7	2·93	+ 2·24	6·3	—	12	—	Worthing.
	a Tunbridge Wells M	52	17th	35	23rd	48·8	41·3	45·2	+ 6·8	25	2	7	2·62	+ 1·98	4·5	- 5·0	8	- 9	Tunbridge Wells.
	a Dungeness	53	17th	40	23rd	50·7	45·1	48·0	+ 7·0	42	0	7	1·73	+ 1·24	3·8	—	7	—	Littlestone.
	p Hastings	52	17th	37	23rd	49·9	44·2	47·2	+ 6·2	36	0	7	1·51	+ 0·89	5·8	- 6·9	11	-13	Hastings.
	p Southampton ..	54	19th	35	23rd	51·1	44·1	47·7	+ 6·5	40	0	7	2·96	+ 2·30	5·2	- 5·4	10	-10	Southampton.
	a Ventnor	52	17th, 19th	38	23rd	51·0	45·3	48·3	+ 4·9	44	0	7	2·45	+ 1·83	7·2	- 3·8	13	- 7	Ventnor.
															4·8	- 6·9	9	-13	Eastbourne.
LONDON	a Westminster ..	55	17th	35	23rd	51·3	44·0	47·8	+ 7·9	41	0	7	1·24	+ 0·81	0·9	- 2·1	2	- 4	Westminster.
	a Greenwich	54	17th	36	23rd	50·3	42·4	46·5	+ 6·9	32	0	7	1·37	+ 0·95	1·5	- 5·9	3	-11	Greenwich.
6. a, SCOTLAND. W.	a Poltalloch .. S	52	18th	29	23rd	46·3	38·6	42·6	+ 2·8	18	10	7	2·40	+ 1·15	*	*	*	*	* *
	p Glasgow	54	18th	34	23rd	47·3	41·0	44·3	+ 4·0	20	3	7	1·31	+ 0·41	0·7	- 2·8	2	- 6	Glasgow.
	p Rothesay .. S	52	18th	32	23rd	47·6	40·3	44·1	+ 3·9	22	5	7	1·94	+ 0·83	*	*	*	*	* *
	a Kilmarnock	53	18th	28	23rd	47·9	39·3	43·8	+ 3·6	24	8	7	1·13	—	4·6	—	10	—	Kilmarnock.
	a Colmonell	52	18th	32	23rd	47·6	39·6	43·8	+ 2·5	23	7	6	2·44	+ 1·29	*	*	*	*	* *
	p Dumfries	55	18th	33	23rd	47·4	40·1	43·9	+ 5·2	21	5	6	1·61	+ 0·74	0·8	—	2	—	Dumfries.
	p Cally, Gatehouse S	50	19th	30	23rd	45·9	38·2	42·2	+ 3·3	17	11	6	1·74	+ 0·54	*	*	*	*	* *
b, ISLE OF MAN	p Douglas	52	18th	38	22nd, 23rd	48·0	43·0	45·6	+ 3·7	25	0	7	1·31	+ 0·23	4·1	- 5·0	8	-10	Douglas.
															2·2	—	4	—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	56	18th	31	23rd	48·0	40·7	44·5	+ 5·8	23	4	6	1·81	+ 0·94	3·2	—	7	—	Aspatria.
	p Newton Rigg ..	55	18th	30	23rd	46·9	38·8	43·0	+ 6·0	20	9	6	1·82	+ 0·96	3·4	- 3·9	7	- 8	Newton Rigg.
	p Stonyhurst	53	18th	33	23rd	47·3	41·1	44·3	+ 5·8	20	3	6	1·29	+ 0·29	1·5	- 4·3	3	- 9	Stonyhurst.
	p Blackpool .. M	54	18th	36	21st, 23rd	48·5	41·0	44·9	+ 5·4	25	3	7	1·27	+ 0·62	1·5	- 4·8	3	-10	Blackpool.
	p M'nch'ster, Prestwich	54	18th	34	23rd	48·1	41·6	45·0	+ 6·3	23	1	7	1·21	+ 0·38	—	—	—	—	Prestwich.
	a Liverpool (Bidston)	54	18th	38	23rd	49·1	41·6	45·5	+ 4·9	26	1	7	1·14	+ 0·61	4·6	—	9	—	Liverpool.
	a Hawarden Bridge ..	58	19th	38	23rd	50·9	42·7	47·0	+ 6·1	35	0	7	1·25	+ 0·78	2·2	- 4·3	4	- 9	Southport.
															3·4	—	7	—	Rhyl.
b, NORTH WALES	p Llandudno .. M	56	17th	38	22nd	49·5	43·7	46·7	+ 4·1	33	0	7	1·80	+ 1·18	1·0	- 7·4	2	-15	Llandudno.
	a Holyhead	52	17th, 18th	38	23rd	49·0	43·7	46·5	+ 3·6	32	0	7	1·82	+ 0·97	5·9	—	11	—	Aberdovey.
	p Bettws-y-Coed ..	55	17th, 19th	33	22nd, 23rd	48·4	41·3	45·0	+ 2·7	24	2	7	3·33	—	2·3	—	5	—	Bettws-y-Coed.
															6·2	—	12	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	53	17th	30	23rd	48·3	39·4	44·0	+ 5·8	25	7	7	3·58	—	1·6	—	3	—	Llangammarch Wells.
	a Pembroke	53	17th, 18th	40	22nd, 23rd	51·3	45·1	48·3	+ 3·9	44	0	7	2·50	+ 1·61	6·8	- 2·9	13	- 6	Pembroke.
	p Cardiff	52	17th, 19th	35	23rd	48·2	42·0	45·2	+ 5·7	22	0	7	2·81	+ 1·78	8·3	—	16	—	Cardiff.
															6·2	- 4·1	12	- 8	Tenby.
b, ENGLAND, S.W.	a Clifton	54	17th	35	23rd	50·3	43·6	47·1	+ 6·4	36	0	7	2·20	+ 1·44	? 7·0	—	? 13	—	Clifton.
	a Shaftesbury .. M	50	17, 19, 23rd	33	23rd	48·9	40·2	44·7	+ 5·7	26	5	7	2·06	+ 1·31	*	*	*	*	* *
	a Arlington	52	17th, 18th	36	23rd	49·6	42·1	46·0	+ 5·2	28	0	7	2·36	+ 0·96	11·3	+ 0·3	21	+ 1	Newquay.
	a Cullompton .. M	54	19th	34	23rd	51·3	43·1	47·4	+ 6·8	38	0	7	3·06	+ 2·19	7·5	- 1·0	14	- 2	Cullompton.
	a Portland Bill ..	53	17, 19, 22nd	41	23rd	51·9	46·4	49·3	+ 6·1	51	0	7	1·32	—	11·3	—	21	—	Weymouth.
	p Plymouth	53	18, 19, 22nd	35	23rd	51·9	44·5	48·4	+ 4·8	45	0	7	3·63	+ 2·64	8·3	- 2·8	15	- 5	Plymouth.
	p Falmouth	53	17th	41	23rd	51·6	46·1	49·0	+ 4·1	49	0	7	3·44	+ 2·13	11·5	- 0·8	21	- 2	Falmouth.
															11·4	—	21	—	Salcombe.
															12·4	+ 0·4	23	+ 1	Torquay.
9. IRELAND, N. — a, West.	a Malin Head	53	18th	37	23rd	47·7	40·1	44·1	+ 2·2	23	5	6	0·48	- 0·23	*	*	*	*	* *
	a Blacksod Point ..	55	17th	39	23rd	50·0	42·6	46·5	+ 3·0	32	0	6	2·32	+ 1·02	*	*	*	*	* *
	p Markree Castle ..	52	18th	29	23rd	47·0	36·3	41·9	+ 1·7	14	25	6	1·49	+ 0·47	11·6	+ 4·0	23	+ 8	Markree Castle.
	a Birr Castle	55	17th, 18th	32	23rd	49·3	39·3	44·5	+ 4·1	29	8	7	1·25	+ 0·55	14·7	+ 5·1	29	+10	Birr Castle.
b, East.	p Armagh	54	18th	31	22nd, 23rd	48·8	37·4	42·3	+ 2·3	21	13	5	0·88	+ 0·26	11·4	+ 2·8	23	+ 6	Armagh.
	a Donaghadee	53	18th	34	23rd	47·7	40·0	44·0	+ 2·6	22	6	4	0·95	+ 0·28	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	57	18th	34	23rd	49·6	42·3	46·1	+ 3·6	29	0	7	0·83	+ 0·36	7·4	- 4·3	15	- 8	Phœnix Park.
	a Kilkenny	53	17th, 18th	28	23rd	48·7	39·9	44·5	+ 3·8	26	6	7	1·42	+ 0·68	*	*	*	*	* *
	a Waterford	53	17th	30	23rd	49·3	40·0	44·8	+ 2·7	28	6	6	2·18	+ 1·21	*	*	*	*	* *
b, West.	a Birr Castle	55	17th, 18th	32	23rd	49·3	39·3	44·5	+ 4·1	29	8	7	1·25	+ 0·55	14·7	+ 5·1	29	+10	Birr Castle.
	a Foynes	55	17th	33	23rd	48·8	39·2	44·2	+ 1·4	27	8	7	2·36	+ 1·36	*	*	*	*	* *
	a Cahir .. .. M	53	17th	29	23rd	48·5	38·6	43·8	+ 1·3	27	10	7	2·11	—	*	*	*	*	* *
	a Killarney	54	17th	34	23rd	49·3	42·1	45·8	+ 2·4	27	0	7	2·98	+ 1·38	*	*	*	*	* *
	a Valencia	55	17th	35	23rd	50·3	42·3	46·5	+ 1·0	32	0	7	2·46	+ 1·02	9·8	+ 0·5	19	+ 1	Valencia.
	a Roche's Point ..	53	18th	37	23rd	50·1	43·6	47·0	+ 2·4	35	0	7	2·25	+ 1·03	8·5	—	16	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	54	18th, 22nd	44	23rd	52·7	47·0	50·0	+ 2·6	56	0	7	1·27	+ 0·35	13·0	+ 2·0	24	+ 4	Scilly.
	a Jersey, St. Aubins ..	57	19th	44	23rd	54·3	47·6	51·1	+ 6·6	64	0	7	2·30	+ 1·44	6·8	- 6·9	12	-12	St. Heliers.
	a Guernsey	56	19th	43	23rd	52·6	46·9	49·9	+ 4·8	55	0	7	2·32	+ 1·35	12·4	+ 2·4	23	+ 4	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, 69 hrs. (- 4·1 hrs.), 13 % (- 8 %); *Bournemouth*, 7·9 hrs., 15 %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
		°	°	°
0. Baltasound	—	—	41·2	—
— — ..				
— — ..				
1. Aberdeen	—	—	—	43·0
Crathes	3	20	39·8	40·5
Balmoral	3	22	—	—
Marchmont ..	2	27	39·6	—
2. Cockle Park	3	28	40·0	42·2
Durham	2	25	—	—
York	—	—	42·7	44·4
Hull	2	26	42·3	44·9
Lincoln	—	—	41·0	43·4
Rauceby	3	27	43·2	45·8
3. Norwich	3	29	—	—
Yarmouth	—	—	43·3	45·7
Lowestoft	0	32	43·3	45·4
Cambridge	2	26	43·2	45·6
Clacton-on-Sea ..	0	32	44·9	47·4
Southend	2	29	44·9	—
Tottenham	0	34	—	47·1
4. Harrogate	1	29	41·9	42·9
Huddersfield ..	1	27	41·8	43·8
Buxton	5	24	41·3	44·9
Sheffield	1	30	42·1	44·2
Nottingham	2	26	41·8	43·1
Birmingham	1	30	44·2	46·6
Oxford	0	31	—	—
Hereford	1	26	—	—
Cirencester	2	29	43·9	45·4
Bath	—	—	44·9	46·2
5. Margate	0	—	45·0	46·3
Greenwich	1	29	—	—
Westminster ..	1	30	—	—
Kew	2	28	44·6	46·3
Canterbury	1	29	45·9	45·7
Tunbridge Wells ..	2	29	44·0	—
Wisley	1	27	44·6	46·3
Worthing	2	29	46·1	47·9
Portsmouth	0	34	46·5	47·9
6. Glasgow	2	25	—	—
Rothesay	—	—	—	44·5
Colmonell	1	30	—	—
6. Dumfries	1	26	42·1	43·7
Douglas	0	32	—	—
7. Aspatria	1	22	43·0	44·6
Newton Rigg ..	3	20	42·5	43·2
Burnley	1	22	41·9	43·9
Southport	0	31	41·9	43·4
Manchester City ..	0	32	42·8	45·3
Bettws-y-Coed ..	0	31	44·1	45·6
8. Llangammarch Wells	1	23	44·2	47·0
Cardiff	2	29	43·8	46·0
Clifton	?1	?29	—	—
Plymouth	1	30	47·6	—
9. Armagh	2	25	42·1	44·8
Markree	3	24	42·2	45·9
10. Dublin, Trin. Coll. ..	2	22	43·5	45·4
11. Guernsey, Brooklyn	0	35	48·3	49·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	46	46	46·0
	Kirkwall	42	41	41·7
	Wick	47	45	46·5
SCOTLAND E.	Cromarty	44	42	43·2
	Pennan Bay	45	44	45·0
	Aberdeen, Cove Bay ..	46	44	45·5
ENGLAND, N.E.	Burnmouth, Berwick ..	43	42	42·7
	Scarborough	46	40	43·6
ENGLAND, E.	Shipwash Lightship ..	49	46	48·0
	Margate‡	47	45	46·1
ENGLAND, S.E.	Eastbourne‡	47	46	46·9
SCOTLAND, W.	Lamlash	48	46	46·8
	Ballantrae	47	43	45·3
ENGLAND, N.W.	Port Erin	49	48	48·6
ENGLAND, S.W.	Newquay	48	47	47·9
	Scilly	50	47	48·3
	Plymouth‡	45	44	44·5
	Salcombe	50	49	49·8
IRELAND, N.W.	Sheephaven	45	45	45·0
	Teelin	50	43	45·7
IRELAND, S.W.	Cleggan	46	45	45·8
	Seafield	48	45	46·5
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR NOVEMBER, 1911.

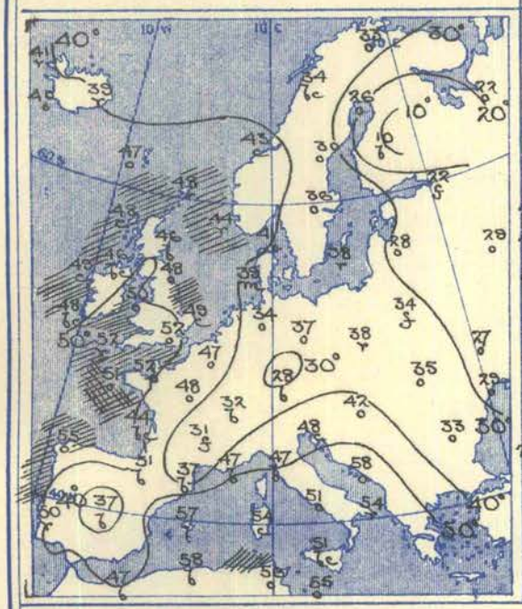
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

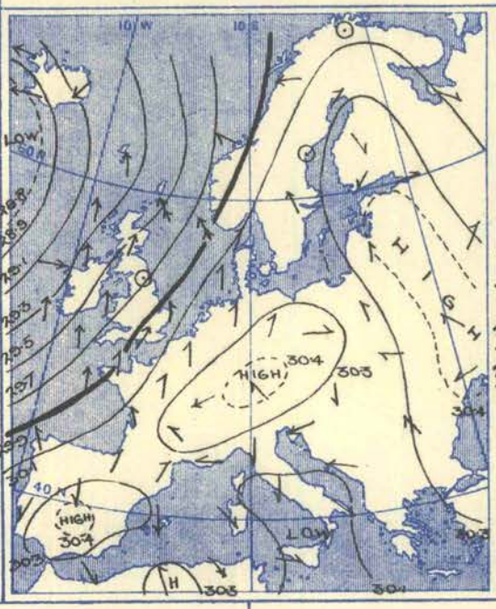
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
Station Values.—Additions.		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 45, p. 363	Tunbridge Wells M	56	5th	31	11th	50·1	37·7	43·9	− 1·2	31	12	7	2·43	+1·65	22·3	+ 4·5	35	+ 7
No. 46, p. 371	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	15·6	—	25	—
Station Values.—Corrections.																		
No. 44, p. 355	Cheadle .. .. M	—	—	—	—	51·6	36·2	43·9	− 0·6	—	16	—	—	—	—	—	—	—
No. 44, p. 355	Shrewsbury	—	—	—	—	—	38·6	46·4	+ 0·3	45	10	—	—	—	—	—	—	—
No. 44, p. 355	Tunbridge Wells M	—	—	—	—	—	37·0	45·7	− 1·7	47	14	—	—	—	—	—	—	—
No. 45, p. 363	Buxton	—	—	—	—	45·5	—	39·6	− 2·1	10	32	—	—	—	—	—	—	—
No. 45, p. 363	Southampton	—	—	—	—	—	39·1	45·6	− 1·5	—	8	—	—	—	—	—	—	—
No. 45, p. 363	Kilmarnock	—	—	—	—	—	34·3	39·7	− 3·9	—	29	—	—	—	—	—	—	—
No. 45, p. 363	Shaftesbury .. M	—	—	—	—	—	38·3	43·6	− 1·4	—	10	—	—	—	—	—	—	—
No. 46, p. 371	Cockle Park	—	—	—	—	—	—	—	—	—	—	—	—	—	8·9	—	15	—
No. 46, p. 371	Buxton	—	—	—	—	47·3	39·2	43·3	+ 2·7	21	8	—	—	—	—	—	—	—
No. 46, p. 371	Hereford .. .. M	56	16th	—	—	52·2	40·7	43·5	+ 3·0	37	4	—	—	—	—	—	—	—
No. 46, p. 371	Newton Rigg	—	—	—	—	—	38·1	42·9	+ 1·5	23	11	—	—	—	—	—	—	—
No. 46, p. 371	Salcombe	—	—	—	—	—	—	—	—	—	—	—	—	—	17·5	—	28	—
No. 47, p. 379	Scarborough	—	—	—	—	—	38·7	41·9	− 1·4	9	14	—	—	—	—	—	—	—
No. 47, p. 379	Lincoln	—	—	—	—	—	—	—	—	—	—	—	0·47	+0·05	—	—	—	—
No. 47, p. 379	Cheadle .. .. M	—	—	—	—	—	32·7	37·7	− 3·3	—	33	—	—	—	—	—	—	—
No. 47, p. 379	Southampton	—	—	—	—	44·2	35·4	39·8	− 4·8	6	25	—	—	—	—	—	—	—
No. 47, p. 379	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	—	—	20·0	+10·6	35	+19
No. 48, p. 387	Birmingham	—	—	—	—	—	—	—	—	—	—	—	0·53	−0·01	—	—	—	—
No. 48, p. 387	Swarraton .. M	—	—	—	—	44·8	—	39·3	− 2·2	8	31	—	—	—	—	—	—	—
No. 48, p. 387	Southampton	—	—	—	—	46·1	—	41·2	− 2·5	11	24	—	—	—	—	—	—	—
Station Values.—Additions.															Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 45, p. 364	Tunbridge Wells M														4	23	46·7	—
No. 47, p. 380	Guernsey, Brooklyn ..														2	29	47·3	52·6

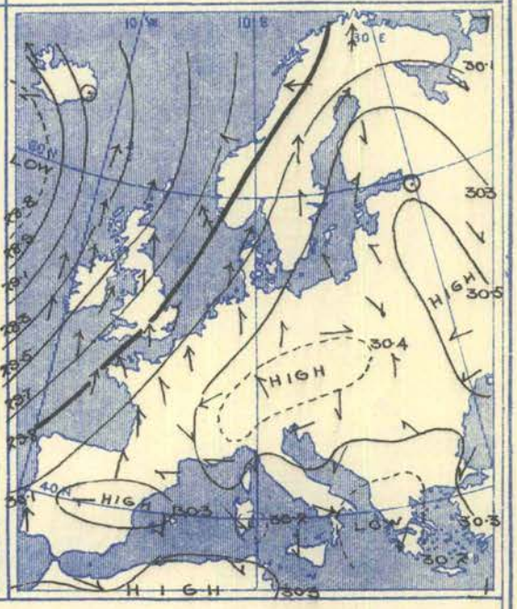
Sunday, 17th December, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning squally, dull, and very unsettled over these Islands and their vicinity, with rain in places; variable in central Europe, cloudy or overcast in Russia, fair to fine over the greater portion of the Mediterranean, but rainy at Brindisi. Rain experienced later in all parts of this country, the north and west of France, as well as over a considerable area in the centre and north of the Continent and at a few places on the Mediterranean.

Temperature in morning higher generally than twenty-four hours earlier. Readings ranging from about 55° at some stations in the extreme south and about 50° at numerous stations in these Islands to below 30° at Munich and in the east and north of the Continent; as low as 10° at Kuopio and 15° at Kharkoff. Rising later to 55° on various parts of our southern and western coasts and in many French localities, to above 60° on several shores of the Mediterranean, and to 68° at Casa Blanca. Remaining below 40° in nearly all parts of Germany and Austria and only touching 46° at Turin.

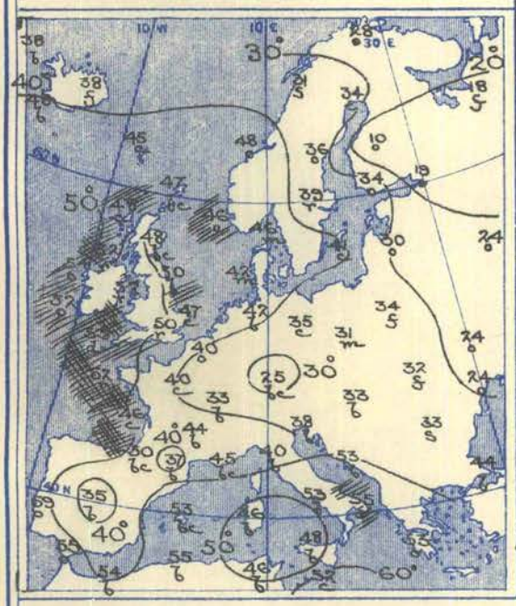
Wind in morning fresh to high from the Southward over the United Kingdom; drawing into the Eastward in Iceland. A gale prevailing in Shetlands and the south-west of Norway. Light anticyclonic winds very general over Russia and the surrounding regions, and light to moderate cyclonic breezes over the Adriatic and Italy. Increasing to a gale later on many parts of our west and south-west coasts and continuing to blow a gale on the south-west coast of Norway. A strong gale from the North-Westward springing up at Horta during the morning.

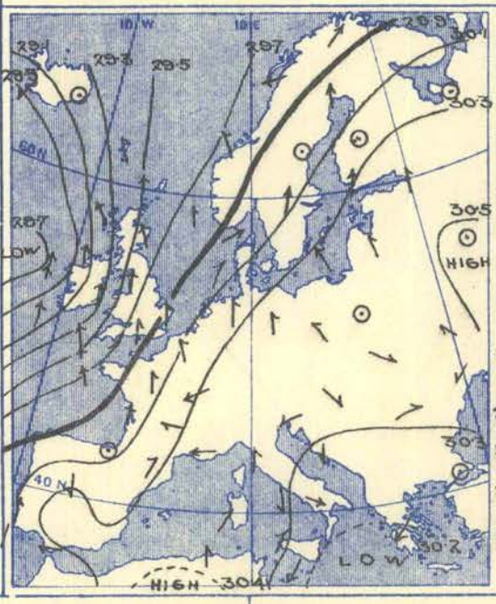
Barometer in morning above 30·4 in. in an anticyclone in Russia, and also in another system centred near Munich, and nearly as high in central Spain. Relatively low over these Islands, and below 28·5 in. on the Atlantic at about latitude 50°, longitude 25°. No material change later in day in the general distribution of pressure. Barometer rising somewhat in Russia and central Europe. A secondary depression passing over the Azores.

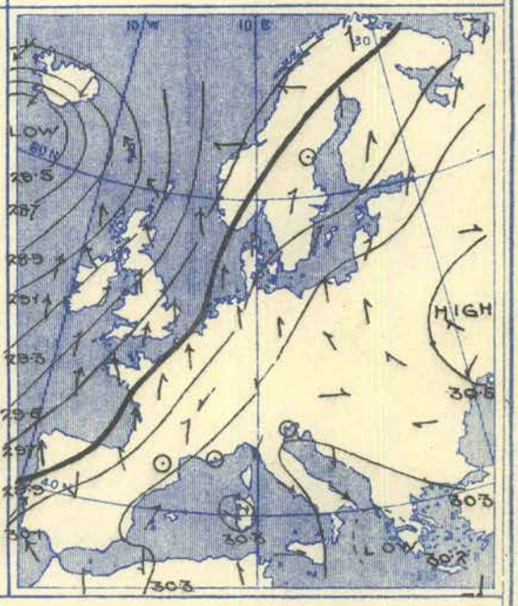
Monday, 18th December, 1911.

Temperature and Weather. | Barometer and Wind.

7 a.m. | 7 a.m. | 6 p.m.







Weather in morning rainy over a considerable portion of the United Kingdom and southern Scandinavia, and also at Swinemünde; fair to bright over southern Europe and the Mediterranean, and cloudy or overcast in Russia and the central countries. Snow falling at Bucharest and also at Bodö. Rain later over these Islands and most of northern and north-western Europe, as well as at Turin.

Temperature showing little change. Readings in morning ranging from below 20° in the north-east of Europe and 25° at Munich to about 50° in these Islands and a wide area over the Mediterranean region, and to 62° at Malta. Maxima during day again about 55° at several of our own stations and in different parts of France, and to above 60° at many places in the south of our area; 68° at Palermo, 70° at Patras, and 72° at Casa Blanca. Readings below 40° in several districts in central Europe, and below 45° in the north of Italy.

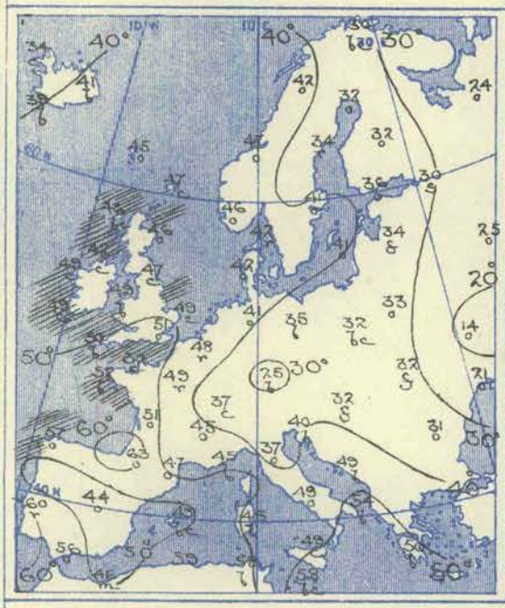
Wind in morning Southerly over these Islands and their neighbourhood, strong to a strong gale in the west and south-west. A gale from between South-West and West prevailing on the Atlantic as far west as the 15th meridian. Light anticyclonic airs general throughout Russia and the central countries and light variable airs on the Mediterranean. A fresh to strong breeze from the Southward prevalent on the west coast of the Spanish Peninsula. Gales experienced later on the north-east coast of Scotland, and a gale from the North-Eastward setting in in Iceland.

Barometer in morning below 28·4 in. in a large and very deep depression centred on the Atlantic a long way to the westward of Ireland; above 30·5 in. in central and southern Russia, and nearly as high over the central regions of the Continent. Gradient very steep over the western districts of these Islands. Little modification occurring later in day in the general situation, but gradient decreasing in this country and increasing over the Icelandic region, as well as over the North Sea.

Tuesday, 19th December, 1911.

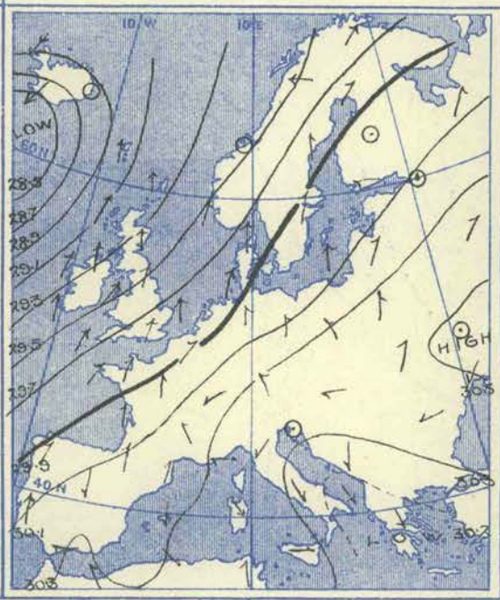
Temperature and Weather.

7 a.m.

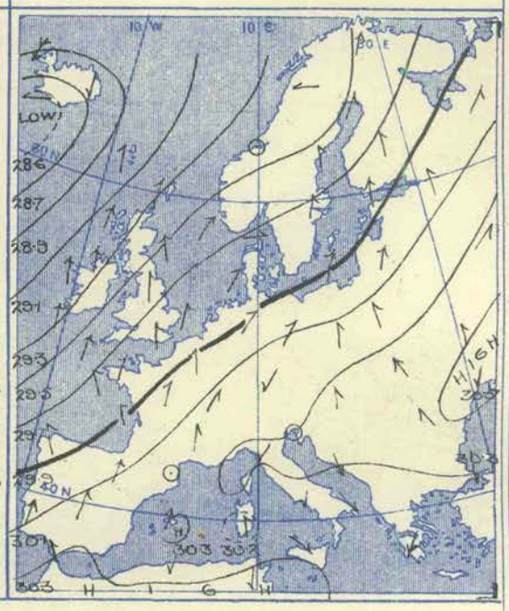


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine to dull over these Islands generally. Rainy over the north of France, the Netherlands, and the south of Scandinavia, and also at Lisbon. Fine and bright in Algeria and Italy. Rain later throughout the United Kingdom and in most parts of north-western Europe; more than 0·5 in. at Brest, the south-west of England, and at Blacksod.

Temperature fallen slightly at many of our own stations, risen in the southern countries. Morning readings ranging from 67° at Bilbao, 63° at Biarritz, and 60° at Lisbon to below 40° over the major portion of the Continent, to 25° at Munich and Moscow, and to 14° at Kharkoff. Maxima during day rather above 50° over most of this country and France; below 40° very generally in central Europe, and no higher than 32° at Vienna. Thermometer touching 70° at Algiers and rising to above 60° in the extreme south as a whole.

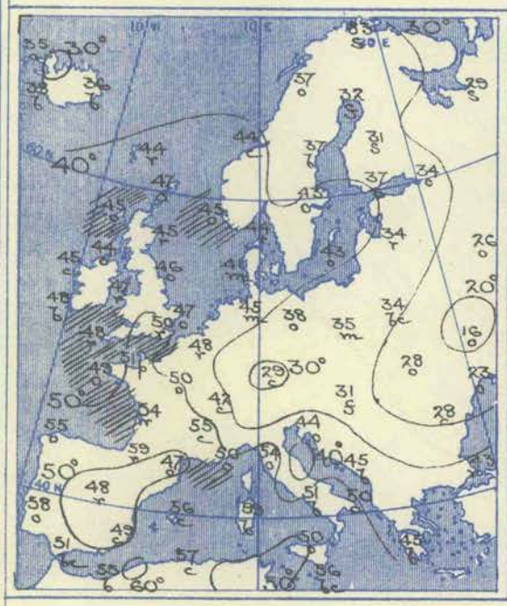
Wind in morning mainly Southerly over these Islands and the adjacent portion of the Continent, and North-Easterly in Iceland. Blowing a gale at Malin Head and a strong breeze on some other parts of our coast. A strong gale prevailing in the north-west of Iceland, and a Westerly gale some distance to the westward of Ireland. Light Southerly or South-Easterly breezes general over the eastern and north-eastern countries, and variable or Northerly breezes on the Mediterranean. No change of importance during day in these Islands, but Southerly current becoming strong on the coast of Portugal.

Barometer in morning above 30·5 in. in the south of Russia; below 30·2 in. in a depression over the south-east of Europe, and below 28·5 in. in a very large system covering the eastern portion of the Atlantic. A well-marked "V" shaped depression arriving over these Islands from the westward during night, and barometer falling and rising again with great rapidity. No great modification occurring in the general situation.

Wednesday, 20th December, 1911.

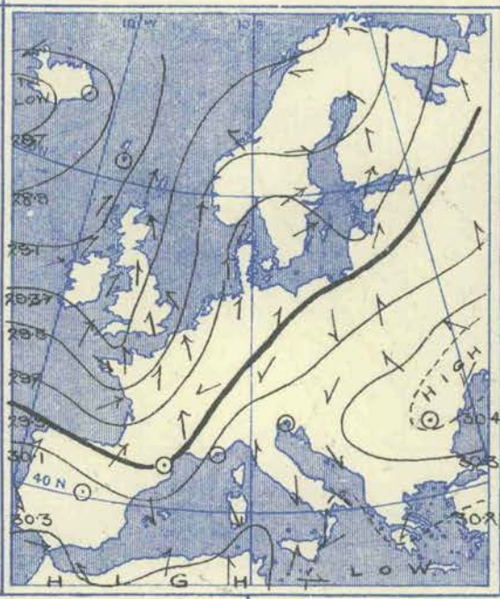
Temperature and Weather.

7 a.m.

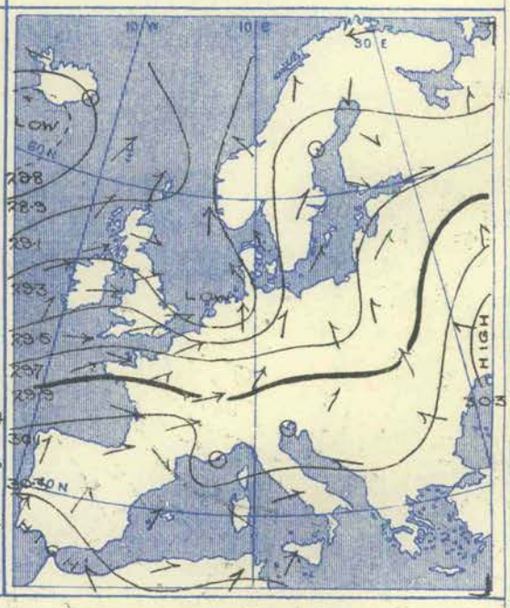


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy over a large portion of the United Kingdom, France, and Belgium, and also at Madrid and at some stations in northern Europe. Mainly fair to bright over the Mediterranean region. Rain experienced later in all countries except Italy and Spain, amounts about 0·5 in. over a very extensive area in these Islands, France, and the Netherlands.

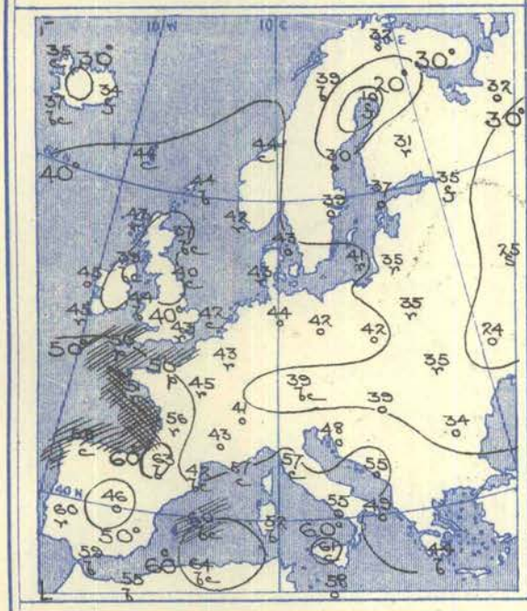
Temperature fallen somewhat in most regions. Morning readings ranging from below 32° at nearly all places in eastern and north-eastern Europe and in South Germany to about 50° in the south-west of these Islands, and to above 55° on some shores of the Mediterranean. Rising to about 50° during day in many parts of England, to a rather higher figure in France, to 60° at several places further south, and to above 70° in Algeria. Remaining below 45° in Central Europe.

Wind in morning fresh to a gale from the Westward or North-Westward on our south-west coasts, and moderate to strong from the Southward on our eastern and northern coasts. High winds or gales from the Westward prevailing on the Bay of Biscay, and a gale from South on the south-west coast of Norway. Light and rather variable airs general elsewhere. Rising to a gale from the Westward later at Jersey and Clacton-on-Sea and to a high wind on various parts of our coasts, but gale subsiding on the Bay of Biscay.

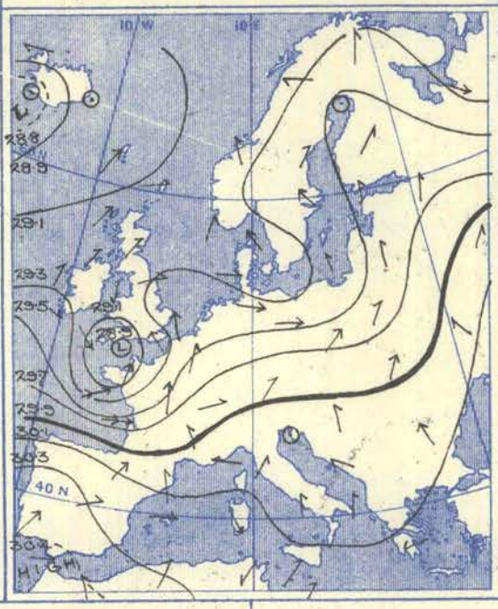
Barometer in morning above 30·5 in. in the south of Russia; above 30·3 in. on the north-west coast of Africa; below 28·7 in. in a large depression having its minimum on the Atlantic south of Iceland, and relatively low in a "V" shaped system over these Islands. Latter travelling to the North Sea by evening, but another fall of the barometer beginning on the south-west coast of Ireland.

Thursday, 21st December, 1911

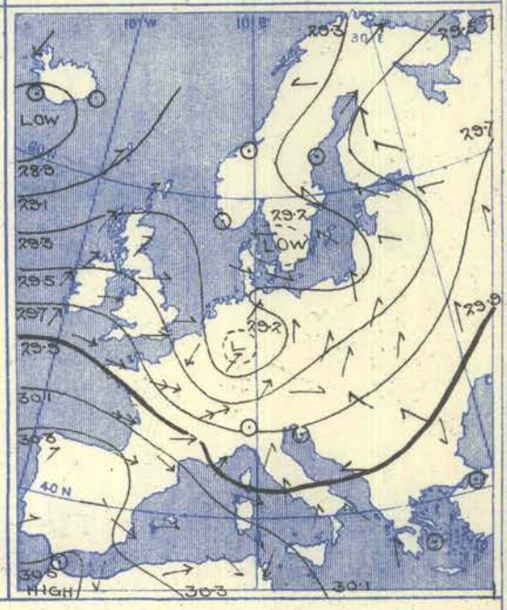
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning very rainy over the southern half of these Islands and the nearer parts of the Continent, but fair to fine in the greater portion of Scotland. Cloudy or dull in central and northern Europe, with rain in some localities, and snow at Moscow. Mostly fine or fair over the south of our area, but rain falling at San Fernando. Slight or moderate quantities of rain later in the United Kingdom and larger amounts in many parts of the Continent. Fair conditions continuing in the south of France, most of Italy, and the Spanish Peninsula.

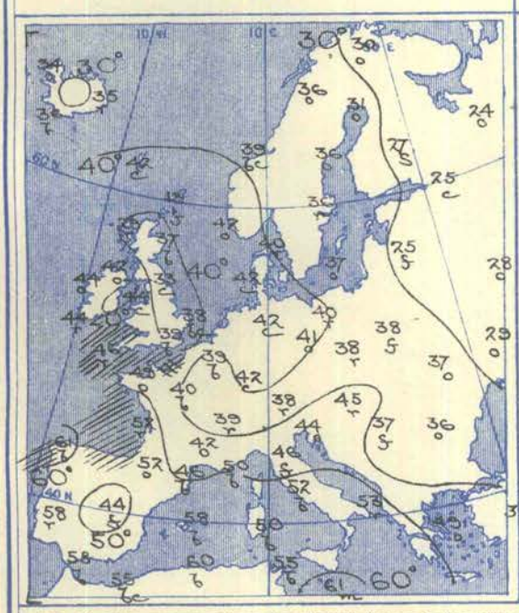
Temperature fallen in most parts of these Islands, changed rather irregularly on the Continent. Readings at 7 a.m., 10° at Haparanda, 13° at Kharkoff, and below 32° over a wide area in the east and north. Above 40° at most of our own stations, in France, and the central countries, and as high as 60° at a few places in the far south. Maxima during day below 50° in most parts of the United Kingdom and below 45° at many of our stations and about 45° over a wide area in central Europe. Above 60° at several places in the far south of Europe and a little above 70° in Algeria and at Malaga.

Wind in morning showing a well-marked cyclonic movement over England and France; strong or fresh on some of our own coasts, and a strong gale on the Bay of Biscay. Light, variable breezes general on the Mediterranean, and light or moderate Southerly to South-Easterly winds over Russia and Scandinavia. Gale continuing through day on the Bay of Biscay and extending to some parts of the Channel and the northern and central departments of France. Backing to the South-Westward in Ireland by evening and increasing to a strong breeze. Increasing from West or North-West over the Mediterranean.

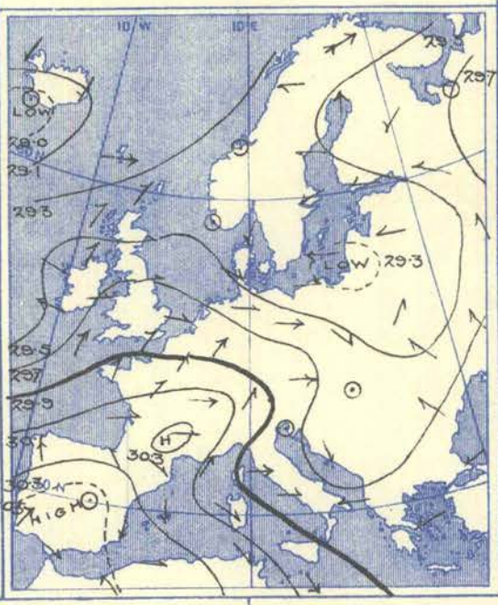
Barometer in morning below 29·0 in. in a deep depression centred over the south-west of England, and gradient unusually steep over the Bay of Biscay region. Above 30·4 in. in the south of Spain. Below 28·8 in. in a large depression with slight gradients in the Icelandic region, and below 29·2 in. in a secondary over Denmark. Depression over this country moving quickly eastward and decreasing somewhat in intensity. Barometer rising with great rapidity over the south of England and the Channel. South-western anticyclone extending northward.

Friday, 22nd December, 1911.

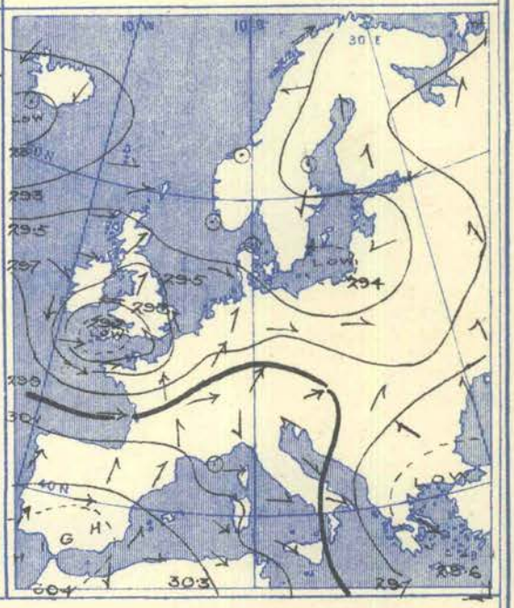
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair or fine at most stations in the extreme south of our area and over a considerable portion of Great Britain. Cloudy to overcast in most other regions, with rain in the south-west of these Islands, over the Baltic and central Europe, and also at Brindisi and Lisbon. Rain later except in the south of France, Spain, many parts of Italy, Algeria, and Scotland. More than 0·5 in. at several of our own stations and at Brussels and Flushing, and about 1·0 in. in the north-east of France; 0·8 in. of snow at Helsingfors.

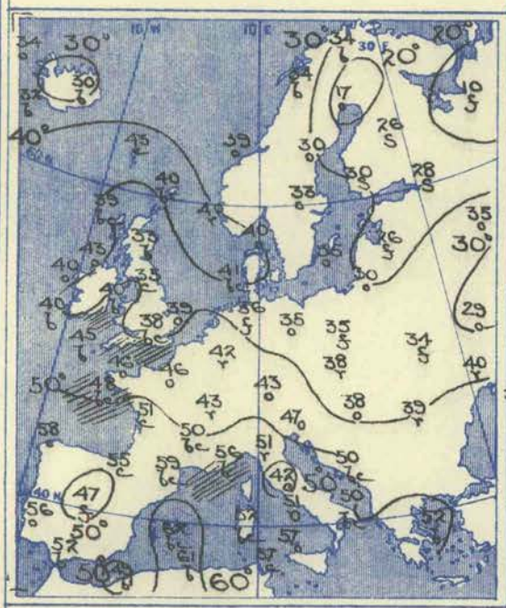
Temperature fallen over these Islands and the nearer regions of the Continent. Morning readings ranging from 61° at Malta and 60° at Algiers to below 40° over the major portion of our area and to a little below 30° in the east and north of Europe. Maxima during day 50° or above in the south-west and south of this country, about 60° at numerous stations in the south of our area, 70° at Algiers and Sfax, and 72° at Malaga. About 45° in the central countries of the Continent, and 40° in Norway. Subsequently falling to about 32° in various parts of the United Kingdom.

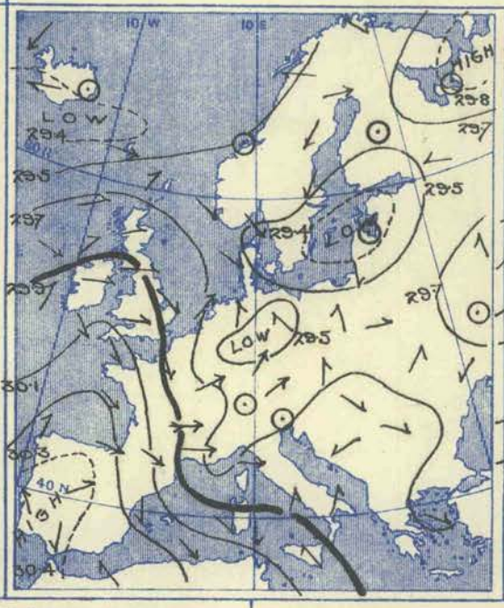
Wind in morning fresh to high from the North-Westward over a large area on the Mediterranean and moderate to strong from a similar point over central Europe. Light or moderate South-Westerly to South-Easterly breezes over the Bay of Biscay and the south-west of these Islands. Easterly breezes prevailing in Iceland and a gale from the Westward at Vardö. Wind increasing greatly from various points over England and the south of Ireland during day, and reaching the force of a gale on several parts of our south-west and south coasts, and also on the coast of Brittany. Continuing strong on the shores of the Mediterranean.

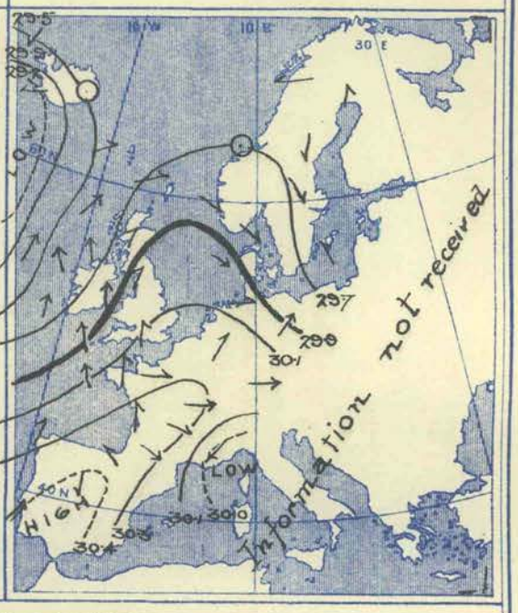
Barometer in morning below 29·0 in. in the south-West of Iceland, nearly as low in another depression to the westward of Ireland, and below 29·3 in. in a third over the Baltic. Above 30·4 in. in the south-west of the Continent, and relatively high in the south-east of Russia. Atlantic depression advancing over our south-western districts during day and gradient becoming steep in its neighbourhood. Baltic disturbance decreasing somewhat in depth and that over Iceland undergoing little modification. Anticyclonic system in the south-west of our area maintaining its position without loss of intensity.

Saturday, 23rd December, 1911.

Temperature and Weather.	Barometer and Wind.	
7 a.m.	7 a.m.	6 p.m.







Weather in morning fair to fine and bright in most parts of the United Kingdom and southern Europe; generally cloudy or dull elsewhere, with rain in various localities in central Europe, and some snow at a few northern stations. Rain experienced subsequently over nearly the whole of these Islands and the adjacent countries of the Continent; about 0·6 in. in the west of Ireland.

Temperature showing no decided change. Morning readings 10° at Archangel, below 32° in the north and east of the Continent as a whole, and below 40° over a very large area. Between 50° and 60° at nearly all stations on the shores of the Mediterranean, and above 60° in a few places. Touching or exceeding 50° during day over large districts in England and Ireland and touching or rising above 60° in the south of France and on the Atlantic coast of the Spanish Peninsula. Severe frost continuing all day in the north of Sweden, and thermometer remaining below 45° in central Europe.

Wind in morning mainly cyclonic, but of little force except in France and over the western portion of the Mediterranean; a high wind from West prevailing at Genoa. Westerly to North-Westerly over most of this country, but Southerly in the south-west of Ireland. Backing to the Southward later over these Islands and increasing considerably in force. Reaching a gale on several parts of our western and northern coasts. A fresh or strong breeze between North-West and North-East experienced on the south coast of France.

Barometer in morning above 30·4 in. in the extreme south-west of Europe, and relatively high in a ridge extending to Scotland. Below 29·5 in. in a depression over central Europe, and below 29·4 in. in another over the Baltic and Gulf of Riga, and also over the south of Iceland and the adjacent part of the ocean. Another depression spreading over these Islands during day, and pressure decreasing very quickly in Ireland. Rising over the North Sea region, and gradient growing much steeper in the west of the United Kingdom.

South Kensington, London, S.W. *December 28th, 1911.* W. N. SHAW *Director.*

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

417

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FOURTH YEAR. Vol. XXVIII (New Series.) } No. 52. FIFTY-SECOND WEEK, SUNDAY, DECEMBER 24TH, TO SATURDAY, DECEMBER 30TH, 1911. [Price 6d. Annual Subscription, post paid, £1 10s. 0d.

I.—General Remarks.

Weather was less disturbed generally than during the preceding week, but more or less rain was experienced on most days, and the sky only cleared for very brief intervals. Thunder and lightning occurred at Bournemouth and Westbourne on the evening of the 24th; and at Tunbridge Wells, Cardiff and Markree Castle on the 25th.

Temperature continued above the average, the excess ranging from about 6° in the Midland Counties and England E. and S.E. to 3° or less in Ireland and Scotland N. and E., as well as in the English Channel. The highest of the maxima were registered on various dates, and varied from 56° in Ireland and the Midland Counties, and 55° in the English Channel, to 51° in Scotland W., and 49° in Scotland N. The lowest of the minima occurred at most stations either on the 24th or 25th, ranging from 26° in Scotland E., and 28° in some north-western districts to 33° in Scotland N., and to 40° in the English Channel. The lowest grass readings reported were 20° at Newton Rigg, 24° at Dumfries, Crathes, and Markree, and 25° in several other parts of the Kingdom.

Mean Temperature of the Sea. The values did not differ much, as a rule, from those of the corresponding week of last year, but were mostly rather higher on the north and south-east coasts of Britain. The means for the week ranged from 50° at Salcombe, and 49° at Scilly, to 42° at Kirkwall, Cromarty, and Scarborough, and to 41° at Burnmouth.

Rainfall exceeded the average in all districts, but over a large portion of the Kingdom the excess was slight. At some stations in the north-east of England the total fall was less than 0·2 inch.

Bright Sunshine just equalled the normal in England N.E., but was below it elsewhere. The percentage of the possible duration ranged from 16 in England N.E., and 13 in England E., to 6 in Scotland W. and the English Channel, and to 4 in Ireland N. At Armagh the total was only 0·5 hour, at Dublin and Glasgow 0·6 hour, at Prestwich 1·0 hour, and at Jersey 1·5 hour.

Barometer and Wind. The low pressure minima on the Atlantic were less deep than during the week immediately preceding, and the Southerly to Westerly wind which prevailed over the United Kingdom was consequently more moderate in force. The steepest gradients obtained on Sunday, when gales were experienced on various parts of our western and northern coasts. Subsequently some secondary systems of little intensity passed eastward over these islands or their vicinity, while the low pressure between Scotland and Iceland receded in a north-westerly direction. Towards the end of the week an anticyclone covering the south-west of Europe extended north-eastwards, and at the same time increased somewhat in intensity.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 420.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Heavy	Moderate	Heavy	Moderate	Heavy	Very heavy	Heavy	Moderate	Heavy	Moderate	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 4 weeks from Dec. 3rd, 1911.	Warmth ...	1 * 0	1 * 0	2 * 0	2 * 0	2 * 0	2 * 1	2 * 1	2 * 0	2 * 0	2 * 1	1 * 1	3 * 0
	Rainfall ...	1 * 0	3 * 0	2 * 0	4 * 0	3 * 0	4 * 0	4 * 0	4 * 0	3 * 0	4 * 0	3 * 0	4 * 0
	Sunshine ...	2 * 1	2 * 1	1 * 0	2 * 1	2 * 1	1 * 2	1 * 2	1 * 1	1 * 1	2 * 1	1 * 1	1 * 1

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER. 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
FIFTY-SECOND WEEK—December 24th to December 30th, 1911.																		
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	49	31	44·2	36·5	40·5	+ 2·2	6	− 1	22	−12	7	+ 2	1·77	+0·63	3	− 1	7	− 2
Eastern																		
1. SCOTLAND, EAST	53	26	44·2	34·3	39·4	+ 2·6	6	+ 0	30	−13	6	+ 2	0·81	+0·20	5	− 1	12	− 2
2. ENGLAND, N.E.	53	30	46·6	36·6	41·8	+ 3·8	13	+ 6	24	−12	6	+ 3	0·43	+0·03	8	0	16	0
3. ENGLAND, EAST	53	32	47·8	38·4	43·3	+ 5·8	24	+ 16	10	−31	5	+ 1	0·66	+0·27	7	− 2	13	− 4
4. MIDLAND COUNTIES	56	31	48·3	37·7	43·2	+ 5·8	26	+ 17	12	−29	5	+ 1	0·57	+0·05	5	− 2	10	− 4
5. ENGLAND, S.E.	53	31	49·6	41·2	45·6	+ 6·0	29	+ 16	2	−28	4	0	0·73	+0·21	6	− 3	12	− 6
Western																		
6 SCOTLAND, WEST	51	28	46·5	37·7	42·3	+ 3·1	20	+ 11	12	−17	7	+ 2	1·58	+0·44	3	− 3	6	− 7
7. ENGLAND, N.W.	54	28	47·8	39·3	43·8	+ 4·5	24	+ 14	8	−21	6	+ 2	1·06	+0·39	4	− 3	8	− 5
8. ENGLAND, S.W.	53	31	49·8	42·2	46·2	+ 4·8	29	+ 12	0	−21	6	+ 2	1·01	+0·07	5	− 5	8	− 9
9 IRELAND, NORTH	56	28	48·3	38·4	43·6	+ 3·0	26	+ 13	10	−13	7	+ 3	1·14	+0·31	2	− 6	4	−12
10. IRELAND, SOUTH	56	30	50·5	40·1	45·5	+ 3·0	32	+ 11	5	−13	6	+ 1	1·07	0·00	5	− 5	9	−10
11. ENGLISH CHANNEL	55	40	51·5	45·5	48·6	+ 2·9	46	+ 18	0	− 7	6	+ 1	0·99	+0·22	4	− 10	6	−17
THE SEASON (Winter).—Aggregates, &c., for the Period of 4 Weeks, December 3rd to December 30th, 1911.																		
0. SCOTLAND, NORTH	57	26	*	*	*	*	53	+ 19	68	−54	25	+ 4	5·74	+0·44	22	+ 5	12	+ 3
Eastern																		
1. SCOTLAND, EAST	56	21	*	*	*	*	37	+ 7	106	−50	22	+ 5	4·17	+1·53	34	+ 6	18	+ 3
2. ENGLAND, N.E.	54	29	*	*	*	*	50	+ 15	83	−42	23	+ 9	3·39	+1·37	40	+ 6	20	+ 3
3. ENGLAND, EAST	55	27	*	*	*	*	79	+ 40	55	−88	24	+ 8	3·78	+2·04	41	+ 2	19	+ 1
4. MIDLAND COUNTIES	56	26	*	*	*	*	85	+ 43	65	−82	24	+ 9	4·85	+2·73	43	+ 11	20	+ 5
5. ENGLAND, S.E.	54	24	*	*	*	*	108	+ 45	36	−65	24	+ 8	6·23	+3·92	45	+ 5	21	+ 2
Western																		
6 SCOTLAND, WEST	55	28	*	*	*	*	65	+ 17	53	−43	27	+ 8	7·45	+2·61	27	0	14	0
7. ENGLAND, N.W.	58	28	*	*	*	*	80	+ 31	41	−58	25	+ 8	5·93	+2·92	31	+ 3	15	+ 1
8. ENGLAND, S.W.	57	25	*	*	*	*	118	+ 38	18	−52	26	+ 8	8·18	+4·11	49	+ 8	23	+ 4
9. IRELAND, NORTH	56	28	*	*	*	*	82	+ 27	60	−27	25	+ 5	5·75	+2·32	38	+ 4	19	+ 2
10. IRELAND, SOUTH	57	26	*	*	*	*	100	+ 9	51	−15	27	+ 8	7·34	+3·22	42	0	20	0
11. ENGLISH CHANNEL	57	35	*	*	*	*	178	+ 49	0	−19	27	+ 7	6·64	+3·14	52	0	23	0
THE YEAR.—Aggregates, &c., for the Period of 52 Weeks, January 1st to December 30th, 1911.																		
0. SCOTLAND, NORTH	84	14	*	*	*	*	2257	+145	637	−159	227	−20	51·27	−1·04	1257	+148	28	+ 3
Eastern																		
1. SCOTLAND, EAST	89	11	*	*	*	*	2497	+144	776	−152	200	− 3	29·42	−1·35	1476	+146	34	+ 3
2. ENGLAND, N.E.	96	19	*	*	*	*	3085	+444	528	−157	180	− 4	23·62	−1·15	1596	+150	36	+ 3
3. ENGLAND, EAST	97	16	*	*	*	*	3606	+559	528	−236	175	− 4	23·10	−0·42	1803	+226	41	+ 5
4. MIDLAND COUNTIES	98	14	*	*	*	*	3430	+468	579	−219	162	−15	22·04	−4·20	1590	+188	36	+ 4
5. ENGLAND, S.E.	96	16	*	*	*	*	3725	+395	457	− 92	159	−13	28·05	+1·14	1933	+336	44	+ 8
Western																		
6. SCOTLAND, WEST	88	18	*	*	*	*	2857	+275	505	− 98	201	−13	44·34	−3·86	1540	+180	35	+ 4
7. ENGLAND, N.W.	90	17	*	*	*	*	3200	+376	406	−141	182	−15	34·25	−0·53	1675	+293	38	+ 7
8. ENGLAND, S.W.	91	13	*	*	*	*	3590	+397	358	− 64	179	−18	36·82	−1·83	1838	+278	42	+ 6
9. IRELAND, NORTH	86	18	*	*	*	*	2941	+237	436	− 67	195	−37	33·55	−4·75	1522	+242	35	+ 6
10. IRELAND, SOUTH	88	18	*	*	*	*	3447	+295	413	+ 28	212	+ 4	39·53	−0·67	1625	+178	37	+ 4
11. ENGLISH CHANNEL	89	28	*	*	*	*	4191	+399	137	+ 5	186	−26	33·82	+1·16	2028	+131	46	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

The temperature averages in use at Lerwick are those obtained from Sumburgh Head.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Baltasound* S	*46*	*24th, 30th*	*33*	*27th*	*43·5*	*36·1*	*40·0*	—	*4*	*23*	*7*	*1·38*	—	*2·0*	—	*5*	—	*Baltasound.*
	a Lerwick	47	24th, 30th	37	28th	45·0	38·6	41·9	+ 2·0	8	15	7	2.29	—	4·3	- 1·7	10	- 4	Deerness.
	a Stornoway	49	30th	36	25, 27, 28th	46·1	37·3	41·9	+ 2·3	11	21	7	0·95	- 0·45	3·3	- 2·1	8	- 5	Stornoway.
	a *Castlebay, Barra Isd.*	*49*	*29th, 30th*	*38*	*25th*	*47·6*	*41·4*	*44·6*	+ *2·5*	*21*	*3*	*7*	*1·95*	—	*2·9*	—	*6*	—	*Castlebay.*
	a Wick	47	30th	33	28th	44·1	35·4	39·9	+ 1·3	6	26	5	0·72	+ 0·07	*	*	*	*	* *
	p Strathpeffer	46	30th	31	25th	43·0	34·4	38·9	+ 1·8	3	29	7	1·04	+ 0·28	2·5	- 4·4	6	-10	Strathpeffer.
	p Glencarron .. S	47	24th, 30th	32	24th, 25th	43·3	37·1	40·3	+ 3·4	4	19	7	3·62	+ 1·25	*	*	*	*	* *
	p Fort Augustus S	48	30th	33	27th	43·2	35·5	39·5	+ 1·3	3	25	7	1·34	+ 0·04	1·8	- 1·0	4	- 2	Fort Augustus.
	p Fort William S	47	30th	35	25th, 27th	44·5	37·1	41·0	+ 1·2	7	20	7	2·42	+ 0·18	*	*	*	*	* *
1. SCOTLAND, E. .. — b, Mainland.	p Gordon Castle S	49	30th	31	25th	45·4	36·6	41·1	+ 2·8	10	22	5	0·86	+ 0·26	*6·9*	—	*15*	—	*Gordon Castle.*
	a Nairn	47	30th	30	24th, 26th	43·7	33·0	38·6	+ 1·1	5	34	5	1·00	+ 0·51	5·4	—	12	—	Nairn.
	a Aberdeen	47	24th, 30th	33	24, 26, 27th	43·9	35·1	39·7	+ 1·6	5	27	5	1·25	+ 0·63	6·4	- 2·3	14	- 5	Aberdeen.
	a Balmoral .. S	46	24th, 25th	28	26th	44·1	32·1	38·3	+ 3·9	6	38	5	0·55	- 0·16	4·3	—	9	—	Crathes S.
	p Crieff .. .. S	47	30th	31	25th	41·6	33·5	37·7	+ 0·2	0	30	7	1·01	+ 0·08	5·5	—	12	—	Balruddery.
	a Leith	47	30th	31	25th	47·4	36·0	41·9	+ 2·6	15	26	5	0·47	+ 0·07	*	*	*	*	* *
	p West Linton .. S	53	28th	35	26th	43·5	33·7	38·8	+ 2·2	4	32	7	0·85	—	*2·9*	—	*6*	—	*West Linton.*
	p Marchmont .. S	50	28th	26	25th	43·5	33·7	38·8	+ 2·2	4	32	7	0·85	—	4·3	- 4·2	9	- 9	Marchmont.
		50	28th	30	25th	44·1	34·3	39·4	+ 2·8	6	30	5	0·50	- 0·07	4·3	- 4·2	9	- 9	Cockle Park.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	52	28th	31	26th	46·7	35·5	41·3	+ 2·6	13	27	5	0·18	- 0·42	8·1	—	17	—	*Newcastle.*
	a Shields	53	28th	32	26th	46·4	35·4	41·1	+ 2·0	12	28	5	0·19	- 0·23	*2·9*	- *2·6*	*6*	- *5*	Durham.
	p Durham	51	28th	30	25th	47·4	35·4	41·6	+ 3·9	15	28	6	0·19	- 0·21	7·2	- 2·3	15	- 5	Scarborough.
	p Rounton .. M	52	28th	30	25th	45·6	35·8	40·9	+ 3·4	10	26	7	0·50	+ 0·08	*	*	*	*	* *
	p Scarborough .. M	50	24th, 28th	35	24, 25, 26th	46·4	38·4	42·6	+ 3·4	19	10	6	0·34	- 0·14	8·5	—	17	—	York.
	p York	53	28th	35	24th, 27th	47·1	38·1	42·8	+ 4·6	22	11	5	0·49	+ 0·07	7·8	+ 2·1	16	+ 4	Skegness.
	a Spurn Head	49	24th	35	26th	45·1	37·3	41·4	+ 1·8	9	20	6	0·56	+ 0·19	*	*	*	*	* *
— b, South.	a Lincoln	51	24th, 28th	33	27th	47·1	36·5	42·0	+ 4·4	14	15	6	0·65	+ 0·24	10·1	—	20	—	Rauceby.
	a Fulbeck	52	24th	33	24th, 25th	47·2	36·6	42·1	+ 4·6	23	15	6	0·75	+ 0·30	5·1	—	10	—	*Lowestoft.*
															4·3	—	*8*	—	Cromer.
	p Cromer	—	—	—	—	—	—	—	—	—	—	7	0·69	—	7·9	—	15	—	Hillington.
3. ENGLAND, E. — a, North.	p Hillington .. M	52	24th	32	27th	46·3	36·3	41·5	+ 4·0	12	24	7	0·74	+ 0·23	7·2	- 2·3	14	- 5	Yarmouth.
	a Yarmouth	51	24th	35	28th	46·6	38·0	42·5	+ 4·2	20	11	6	0·89	+ 0·44	7·6	—	15	—	Gedleston.
	a Norwich	51	24th	34	24th	46·7	37·6	42·3	+ 4·1	21	12	7	0·78	—	*	*	*	*	* *
	p Gedleston	53	30th	35	27th	47·9	38·3	43·3	+ 5·1	25	10	6	0·81	+ 0·38	8·2	- 2·8	16	- 5	Cambridge.
	p Cambridge	52	24th, 28th	33	27th	48·8	37·5	43·4	+ 5·5	29	13	4	0·49	+ 0·16	7·9	- 1·6	15	- 3	*Felixstowe.*
	a *Felixstowe*	*50*	*24, 28, 30th*	*36*	*24th, 28th*	*47·9*	*39·6*	*43·9*	+ *4·7*	*23*	*7*	*6*	*0·48*	—	*7·9*	—	*15*	—	Clacton.
— b, South.	a Clacton-on-Sea ..	50	29th, 30th	36	24th	47·9	39·9	44·1	+ 5·2	24	6	5	0·50	—	8·1	—	15	—	Rothamsted.
	a Rothamsted ..	51	24th, 28th	34	24th	48·6	37·6	43·3	+ 5·5	28	12	5	0·45	- 0·07	5·9	- 3·7	11	- 7	*Southend.*
	a *Shoeburyness* ..	*52*	*24th*	*37*	*24th*	*49·0*	*40·6*	*45·0*	+ *5·9*	*27*	*4*	*3*	*0·40*	+ *0·09*	*5·9*	—	*11*	—	Tottenham.
	p Tottenham	53	24th	37	27th	49·5	41·9	45·9	+ 6·7	28	0	3	0·63	—	3·8	—	7	—	
4. MIDLAND COUNTIES. — a, East.	a Harrogate	50	28th	31	25th	45·2	37·0	41·3	+ 3·7	9	21	6	0·76	+ 0·19	5·8	—	12	—	Harrogate.
	a Bawtry	56	24th	33	26th	48·7	36·9	43·0	+ 5·0	28	14	7	0·55	+ 0·14	4·8	- 2·3	9	- 5	Worksop.
	p *Buxton* .. M	*48*	*28th*	*33*	*25th*	*44·0*	*36·8*	*40·5*	+ *4·6*	*6*	*20*	*6*	*1·67*	+ *0·52*	*1·3*	—	*3*	—	*Buxton.*
	a Nottingham ..	53	28th	34	24, 25, 26th	48·0	36·9	42·7	+ 4·3	26	14	7	0·71	+ 0·25	3·5	—	7	—	Nottingham.
	p Birmingham, Edgbsn	50	24, 28, 30th	34	25th	47·8	38·6	43·4	+ 5·3	24	10	6	0·45	- 0·05	5·1	—	10	—	Birmingham.
	a Raunds .. M	53	24th	32	24th, 27th	48·1	37·3	42·9	+ 5·2	26	13	3	0·29	—	*	*	*	*	* *
	a Oxford	52	24th, 28th	36	24th	49·1	40·1	44·8	+ 5·7	28	5	5	0·75	+ 0·31	7·1	- 2·6	13	- 5	Oxford.
— b, West.	a Cheadle .. M	49	28th	32	25th, 26th	45·0	35·8	40·6	+ 3·3	8	25	6	0·87	+ 0·23	6·9	—	14	—	Sheffield.
	p Shrewsbury	53	28th	35	25th	49·8	38·2	44·2	+ 4·2	31	11	3	0·26	—	*	*	*	*	* *
	a Hereford .. M	52	28th	33	24th	48·9	37·4	43·4	+ 4·6	29	13	4	0·43	- 0·08	*	*	*	*	* *
	a Cirencester	52	24th	33	24, 27, 28th	49·7	36·5	43·4	+ 5·3	33	15	4	0·40	- 0·17	5·1	- 4·1	10	- 8	Cirencester.
	a Bath	53	24th	34	24th	50·7	39·9	45·5	+ 5·4	33	6	4	0·85	+ 0·21	5·0	—	9	—	Bath.
															7·3	—	*14*	—	*Ramsgate.*
5. ENGLAND, S.E. ..	p Kew	52	24th, 28th	39	27th	49·9	41·9	46·1	+ 6·9	29	0	4	0·63	+ 0·22	5·9	- 2·6	11	- 5	Kew.
	a Marlborough ..	50	24, 27, 28th	33	24th, 27th	48·7	38·7	43·9	+ 5·9	27	9	4	0·58	- 0·06	5·4	- 2·9	10	- 6	Marlborough.
	a Margate	53	24th, 25th	37	24th	50·7	41·2	46·1	+ 6·0	32	2	3	0·42	- 0·01	5·9	- 4·5	11	- 9	Margate.
	a Wisley, Surrey ..	52	24th, 28th	31	24th	49·6	40·1	45·0	+ 5·5	29	5	4	0·66	—	5·4	—	10	—	Wisley.
	a Swarraton .. M	51	24th, 28th	35	24th	48·8	39·7	44·4	+ 6·0	26	6	5	1·01	+ 0·36	6·9	—	13	—	Worthing.
	a Tunbridge Wells M	51	24th	35	24th	48·2	39·3	43·9	+ 5·7	25	8	4	0·76	+ 0·15	7·5	- 2·2	14	- 4	Tunbridge Wells.
	a Dungeness	51	24th, 28th	37	24th	49·3	42·3	45·9	+ 5·3	27	0	2	0·49	+ 0·02	7·4	—	14	—	Littlestone.
	p Hastings	51	24th, 28th	39	26th	49·7	42·9	46·4	+ 5·8	31	0	5	0·68	+ 0·09	*7·9*	- *4·9*	*15*	- *9*	*Hastings.*
	p Southampton ..	52	24th, 28th	38	26th	50·6	43·0	47·0	+ 6·1	35	0	4	1·02	+ 0·38	6·1	- 4·6	11	- 9	Southampton.
	a Ventnor	52	24th	39	24th	50·8	43·1	47·1	+ 4·3	36	0	6	1·06	+ 0·45	6·1	- 5·4	11	-10	Ventuor.
															6·3	- 5·6	12	-10	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*54*	*24th*	*37*	*24, 27, 28th*	*50·6*	*40·9*	*45·9*	+ *6·3*	*32*	*3*	*3*	*0·65*	+ *0·24*	*2·4*	- *0·3*	*5*	- *2*	*Westminster.*
	a *Greenwich*	*53*	*24th*	*35*	*24th*	*49·6*	*40·3*	*45·1*	+ *5·5*	*29*	*5*	*3*	*0·56*	+ *0·16*	*3·8*	- *3·9*	*7*	- *7*	*Greenwich.*
6. a, SCOTLAND. W. ..	a Poltalloch .. S	50	28th	32	25th	45·6	35·7	40·9	+ 1·2	10	26	7	3·07	+ 1·87	*	*	*	*	* *
	p Glasgow	50	28th	35	25th	45·7	39·1	42·5	+ 3·4	16	8	7	1·23	+ 0·38	0·6	- 3·2	1	- 7	Glasgow.
	p Rothesay .. S	51	28th	34	25th	46·7	38·6	42·8	+ 2·8	20	10	7	2·20	+ 1·11	*	*	*	*	* *
	a Kilmarnock ..	50	27, 28, 30th	32	25th	47·4	36·3	42·1	+ 2·1	25	16	6	0·95	—	*2·5*	—	*5*	—	*Kilmarnock.*
	a Colmonell ..	51	28th	28	25th	47·2	37·7	42·6	+ 1·7	22	12	6	1·39	+ 0·27	*	*	*	*	* *
	p Dumfries ..	51	28th	30	25th	45·9	37·0	41·6	+ 3·0	11	21	7	1·06	+ 0·22	*2·3*	—	*5*	—	*Dumfries.*
	p Cally, Gatehouse	49	30th	28	25th	45·3	37·0	41·3	+ 2·5	9	21	7	1·58	+ 0·42	*	*	*	*	* *
— b, ISLE OF MAN ..	p Douglas	51	28th	37	25th	47·8	40·4	44·3	+ 2·6	23	4	6	1·18	+ 0·18	4·9	- 4·6	10	- 9	Douglas.
															5·0	—	10	—	Hoylake.
															5·0	—	10	—	Aspatria.
7. a, ENGLAND, N.W. ..	p Aspatria	50	28th	33	25th	46·1	38·6	42·5	+ 4·0	18	10	6	1·55	+ 0·75	5·0	—	10	—	Newton Rigg.
	p Newton Rigg ..	51	29th	28	25th	46·0	36·8	41·6	+ 4·7	11	22	7	1·18	+ 0·34	4·1	- 3·6	8	- 7	Stonyhurst.
	p Stonyhurst	49	24, 28, 29th	35	25th	45·8	38·6	42·3	+ 4·1	16	10	6	1·74	+ 0·76	2·0	- 4·2	4	- 8	Blackpool.
	p Blackpool .. M	49	24, 28, 29th	34	25th	46·9	38·7	43·0	+ 3·6	21	9	6	1·17	+ 0·52	2·2	- 4·5	4	- 9	*Prestwich.*
	a M'nch'ster, Prestwich	50	28th, 29th	35	25th	46·5	38·3	42·6	+ 3·9	20	10	6	1·77	+ 0·97	*1·0*	- *2·8*	*2*	- *6*	*Liverpool.*
	a Liverpool (Bidston)	52	28th	36	26th	48·0	39·4	43·9	+ 3·5	24	7	6	0·90	+ 0·38	*6·4*	—	*13*	—	*Southport.*
	a Hawarden Bridge ..	54	27th, 28th	38	24, 25, 26, 27	50·8	40·7	46·0	+ 5·3	33	4	7	0·38	- 0·07	*3·4*	- *3·8*	*7*	- *7*	*Rhyl.*
															7·1	—	*14*	—	Llandudno.
— b, NORTH WALES ..	p Llandudno .. M	53	24th, 28th	36	25th	50·0	41·4	45·9	+ 3·6	30	2	6	0·50	- 0·11	5·4	- 3·6	11	- 7	Aberdovey.
	a Holyhead	50	27th, 28th	37	25th	48·9	41·6	45·4	+ 2·9	25	1	6	0·64	- 0·16	2·6	—	7	—	Bettws-y-Coed.
	p Bettws-y-Coed ..	53	24th	34	25th	49·1	39·3	44·4	+ 2·6	28	8	6	0·75	—	3·6	—	7	—	Aberystwyth.
															2·2	—	4	—	Llangammarch Wells.
8. a, SOUTH WALES ..	a Llangammarch Wells	51	30th	31	24th	48·5	37·8	43·4	+ 5·4	27	12	7	1·00	—	1·7	—	3	—	Pembroke.
	a Pembroke	51	24, 26, 27, 28	39	25th	50·4	44·1	47·4	+ 3·5	38	0	7	1·13	+ 0·26	7·8	- 2·5	15	- 5	*Cardiff.*
	p Cardiff	50	24, 26, 28, 30	38	25th	48·6	41·0	45·0	+ 5·4	25	3	7	1·20	+ 0·23	*7·3*	—	*15*	—	*Tenby.*
															5·5	- *5·4*	*10*	- *10*	*Clifton.*
— b, ENGLAND, S.W. ..	a Clifton	51	24th, 30th	37	24th	49·7	40·9	45·5	+ 5·0	29	3	6	0·61	- 0·13	*5·4*	—	*10*	—	
	a Shaftesbury .. M	50	24th	35	24th	47·8	38·8	43·5	+ 4·8	24	9	5	0·82	+ 0·12	*	*	*	*	* *
	a Arlington	50	26th, 30th	36	24th	48·4	41·1	44·9	+ 4·7	24	3	7	1·79	+ 0·47	3·7	- 7·5	7	-14	Newquay.
	a Cullompton .. M	52	24, 26, 27th	36	24th	51·0	41·7	46·5	+ 6·1	33	1	6	1·00	+ 0·15	3·6	- 5·2	7	-10	Cullompton.
	a Portland Bill ..	52	24th, 26th	37	25th	50·9	45·3	48·2	+ 5·3	43	0	4	0·36	—	*4·1*	—	*8*	—	*Weymouth.*
	p Plymouth	53	28th	40	25th	51·4	45·6	48·6	+ 5·4	46	0	5	1·21	+ 0·26	4·4	- 6·7	8	-12	Plymouth.
	p Falmouth	53	27th, 28th	41	25th	51·4	46·0	48·8	+ 4·4	48	0	5	1·02	- 0·25	7·9	- 4·4	14	- 8	Falmouth.
															4·7	—	*9*	—	*Salcombe.*
															6·8	- *5·9*	*12*	-*11*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	50	28th, 29th	35	25th	47·6	39·4	43·7	+ 2·2	23	7	7	0·94	+ 0·26	*	*	*	*	* *
	a Blacksod Point ..	56	27th	36	27th	49·9	42·3	46·3	+ 3·1	30	0	7	1·77	+ 0·51	*	*	*	*	* *
	p Markree Castle ..	52	28th	28	25th, 27th	48·5	35·4	42·2	+ 2·1	29	18	7	1·29	+ 0·31	3·1	- 4·7	6	- 9	Markree Castle.
	a Birr Castle	53	27, 28, 29th	34	24th, 25th	49·9	38·0	44·2	+ 4·0	32	11	7	1·00	+ 0·32	*5·2*	- *4·5*	*10*	- *9*	*Birr Castle.*
— b, East.	p Armagh	51	28th	32	25th, 27th	45·7	37·8	42·4	+ 2·6	20	12	7	0·99	+ 0·38	0·5	- 8·4	1	-17	Armagh.
	a Donaghadee	54	28th	33	25th, 26th	47·4	37·3	42·6	+ 1·4	24	13	6	0·83	+ 0·18	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City	54	28th	35	27th	50·0	40·7	45·5	+ 3·3	30	4	5	0·40	- 0·09	0·6	-11·4	1	-22	Phœnix Park.
	a Kilkenny	53	27th	30	24th	50·4	36·9	43·9	+ 3·2	35	14	7	0·91	+ 0·16	*	*	*	*	* *
	a Waterford	53	26th	31	24th	50·3	38·3	44·5	+ 2·7	33	10	5	0·77	- 0·19	*	*	*	*	* *
	a Birr Castle	53	27, 28, 29th	34	24th, 25th	49·9	38·0	44·2	+ 4·0	32	11	7	1·00	+ 0·32	5·2	- 4·5	10	- 9	Birr Castle.
— b, West.	a Foynes	55	27th	34	25th	51·0	40·9	46·2	+ 3·5	34	3	6	1·28	+ 0·32	*	*	*	*	* *
	a Cahir .. .. M	52	27th	30	24th	49·6	38·1	44·1	+ 1·9	31	11	6	1·27	—	*	*	*	*	* *
	a Killarney	56	27th, 28th	37	25th	51·7	42·9	47·5	+ 4·5	39	0	6	1·37	- 0·20	7·6	- 1·9	14	- 4	Valencia.
	a Valencia	54	27th	35	25th	51·3	43·0	47·3	+ 2·1	37	0	7	1·57	+ 0·16	8·0	—	15	—	Ballinacurra.
	a Roche's Point ..	53	26th, 27th	38	24th	49·9	42·4	46·3	+ 1·9	30	0	6	1·04	- 0·16					
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	53	24th, 26th	42	25th	51·4	45·6	48·6	+ 1·5	46	0	6	1·01	+ 0·13	6·2	- 5·1	11	- 9	Scilly.
	a Jersey, St. Aubins ..	55	24th	40	25th	52·3	45·4	49·0	+ 5·0	49	0	6	0·94	+ 0·12	1·5	-12·5	3	-22	St. Helier's.
	a Guernsey	52	24, 26, 27th	42	25th	50·8	45·6	48·3	+ 3·6	44	0	6	1·03	+ 0·11	2·8	- 7·4	5	-13	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 5·7 hrs.* (– *5·5 hrs.*), *11* % (– *10* %); *Bournemouth, 6·2 hrs., 12* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	39·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	42·4
	Crathes	7	24	40·2	35·6
	Balmoral	5	25	—	—
	Marchmont	3	25	—	36·7
2.	Cockle Park	3	26	37·6	41·2
	Durham	3	25	—	—
	York	—	—	40·6	44·3
	Hull	3	28	40·3	44·9
	Lincoln	—	—	38·9	43·3
	Rauceby	3	29	41·0	45·5
3.	Norwich	5	27	—	—
	Yarmouth	—	—	40·6	45·6
	Lowestoft	1	30	41·0	45·0
	Cambridge	5	26	41·3	45·3
	Clacton on-Sea	0	31	43·7	47·2
	Southend	3	28	43·7	—
	Tottenham	0	32	—	46·9

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	3	28	40·2	42·4
	Huddersfield	0	31	40·2	43·8
	Buxton	3	28	39·6	44·8
	Sheffield	0	31	40·6	44·2
	Nottingham	3	26	40·3	42·9
	Birmingham	0	31	42·6	46·4
	Oxford	1	29	—	—
	Hereford	3	28	—	—
	Cirencester	1	30	42·5	44·9
	Bath	—	—	—	—
5.	Margate	—	—	43·6	46·2
	Greenwich	2	28	—	—
	Westminster	2	30	—	—
	Kew	3	27	42·7	46·4
	Canterbury	0	31	43·6	44·6
	Tunbridge Wells	2	25	42·6	—
	Wisley	3	27	43·1	46·1
	Worthing	1	29	44·8	47·8
	Portsmouth	0	35	45·1	47·9
6.	Glasgow	3	25	—	—
	Rothesay	—	—	—	44·4
	Colmonell	1	27	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest readings.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
6.	Dumfries	2	24	39·7	43·3
	Douglas	1	28	—	—
7.	Aspatria	1	25	41·1	44·5
	Newton Rigg	3	20	40·3	43·0
	Burnley	2	29	40·4	44·0
	Southport	0	31	41·0	43·1
	Manchester City	0	35	41·6	45·2
	Bettws-y-Coed	0	32	43·0	45·7
8.	Llangammarch Wells	1	27	43·6	46·9
	Cardiff	0	33	43·1	45·9
	Clifton	0	31	—	—
	Plymouth	0	32	46·9	—
9.	Armagh	2	25	41·1	44·3
	Markree	3	24	41·5	45·3
10.	Dublin, Trin. Coll.	4	25	41·8	45·2
11.	Guernsey, Brooklyn	0	34	47·9	49·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, N.	Lerwick	46	45	45·9
	Kirkwall	42	42	42·0
	Wick	46	46	46·0
SCOTLAND E.	Cromarty	43	42	42·4
	Pennan Bay	45	44	44·4
	Aberdeen, Cove Bay	44	44	44·0
ENGLAND, N.E.	Burnmouth, Berwick	42	41	41·2
	Scarborough	44	40	42·0
ENGLAND, E.	Shipwash Lightship	47	44	46·3
	Margate‡	46	44	45·1
ENGLAND, S.E.	Eastbourne‡	47	46	46·3

DISTRICT.	STATION.	Highest. °	Lowest. °	Mean. °
SCOTLAND, W.	Lamlash	47	46	46·0
	Ballantrae	47	42	44·2
ENGLAND, N.W.	Port Erin	49	47	48·1
ENGLAND, S.W.	Newquay	48	48	48·0
	Scilly	50	47	49·0
	Plymouth‡	? 44	? 43	? 43·4
	Salcombe	51	48	49·8
IRELAND, N.W.	Sheephaven	45	44	44·4
	Teelin	46	43	44·1
IRELAND, S.W.	Cleggan	47	44	45·6
	Seafield	48	45	46·8
IRELAND, E.	.. ..	—	—	—

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1910, pp. 138–142.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10–12 Beaufort Scale); ⟫⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1–3); and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

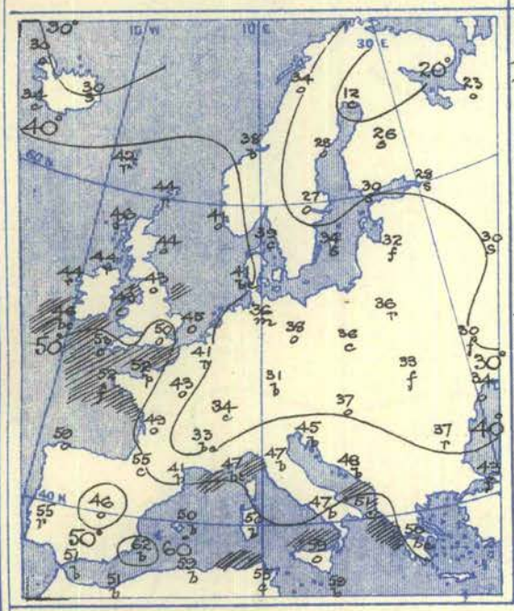
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 24th December, 1911.

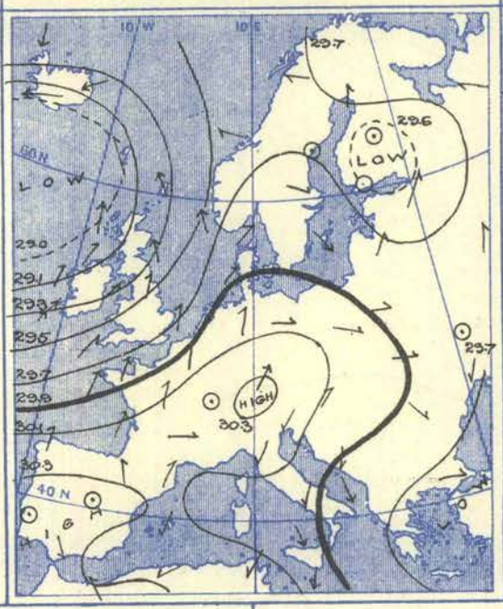
Temperature and Weather.

7 a.m.

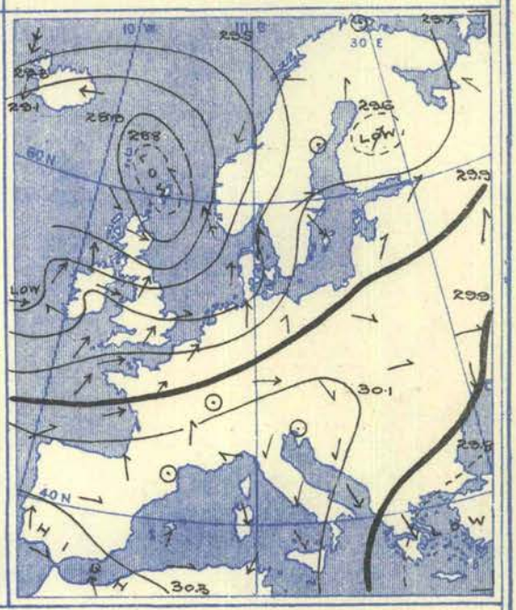


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning unsettled and rather rough over the United Kingdom and the nearer countries of the Continent, with rain in several places. Rain also falling in Portugal and rain or snow over a wide area in the east and north-east of the Continent. Fair to bright at most stations in the south of our area. Considerable quantities of rain later in these Islands and the greater portion of France, and also in the Netherlands, central Europe, and in various districts elsewhere.

Temperature fallen over a large part of the Continent, risen decidedly in these Islands. Morning readings about 50° at most English stations, and above 55° in Portugal and on many shores of the Mediterranean. About 32° in Bavaria, a little lower in Russia, and as low as 12° in the north of Sweden. Maxima during day above 60° at several places in the south, and above 50° at numerous stations in England and the south of Scotland, as well as in most parts of France; below 45° in Austria and Germany, and as low as 14° in the north of Sweden.

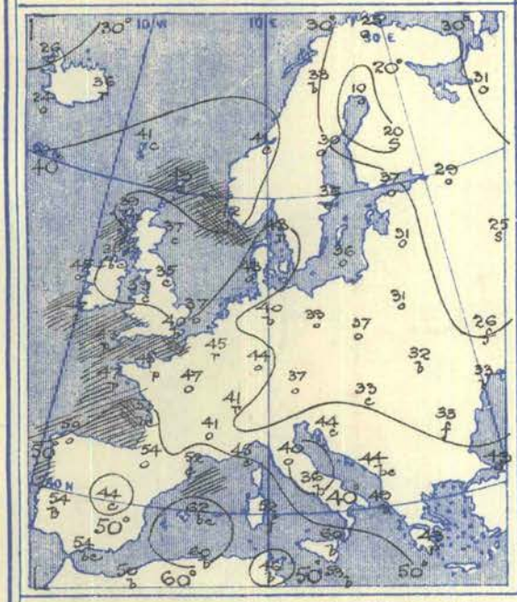
Wind in morning South-Westerly to Southerly over these Islands and their neighbourhood, fresh or strong to high generally, and blowing a gale at Valencia and Lerwick; moderate to high between North and East in Iceland. A fresh to strong Northerly to North-Westerly breeze prevailing over the Mediterranean and Adriatic, and a high wind at Brindisi. Veering towards West in this country during day and increasing to a gale on some parts of our western and northern coasts. A gale from the Southward setting in in the south-west of Norway, and from North in the north-west of Iceland.

Barometer in morning above 30·3 in. in the south-west of our area and also in Bavaria; below 29·6 in. in a depression over Finland, and nearly as low in the south-east of Europe; below 29·0 in. in a large system on the Atlantic to the north-westward of these Islands. Latter travelling Eastward during day, and a small secondary appearing off the south-west of Ireland. Pressure decreasing briskly over Germany, but scarcely changing over the Spanish Peninsula.

Monday, 25th December, 1911.

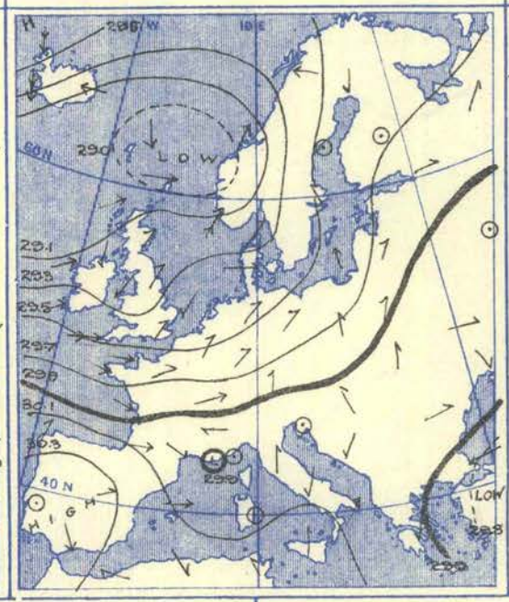
Temperature and Weather.

7 a.m.

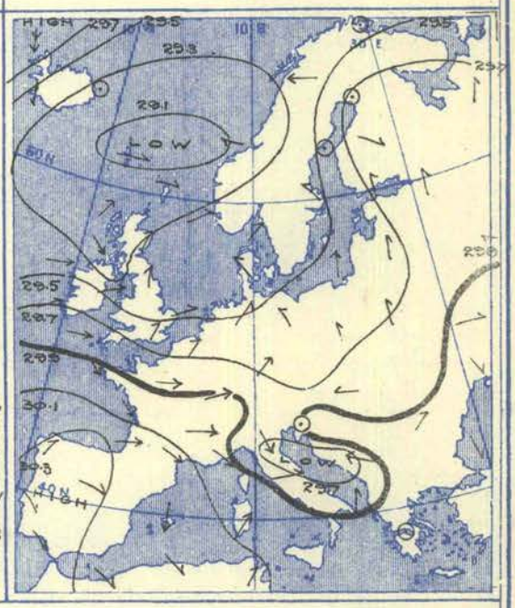


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning variable over these Islands and the western and central countries of the Continent; rain falling at some of our southern and south-western stations and in places over a large area in France, Germany and the Netherlands. Mostly fair to bright over the Mediterranean region, but rainy at Athens. Rain later in day or at night in many parts of this country and over a wide area on the Continent. Considerable or heavy falls in Switzerland and the regions surrounding and also on the Adriatic.

Temperature fallen over the United Kingdom, risen in many localities on the Continent. Morning readings ranging from 10° at Haparanda and below 32° at several stations in the north and north-east of the Continent to between 40° and 45° in the south and south-west of these Islands, to above 50° at many places in the south of Europe, and to above 60° at a few stations. Maxima during day above 45° over the major portion of these Islands and above 50° in most French districts. Thermometer rising to about 65° at some places in the far south, and to 73° at Cape de Garde.

Wind in morning Westerly to South-Westerly over these Islands; fresh to high on our south and south-west coasts, and blowing a gale at Scilly. Strong Westerly winds or gales prevailing over France, a South-Westerly gale in the south-west of Norway, and a gale from North in Iceland. Light to fresh breezes from various quarters over the south of our area. Very little change later as a whole, but strong or high winds from different quarters setting in on the Mediterranean and Adriatic. Wind falling light on the south-west coast of Norway.

Barometer in morning above 30·3 in. in the south-west of our area; below 29·0 in. in a depression off the north of Scotland, and relatively low over Wales and also in a small depression over the south of France. Not much change occurring during day in the main pressure systems, but French depression travelling Eastward to Italy and increasing considerably in depth. Gradient growing steep in places over the south of the Continent and the Mediterranean.

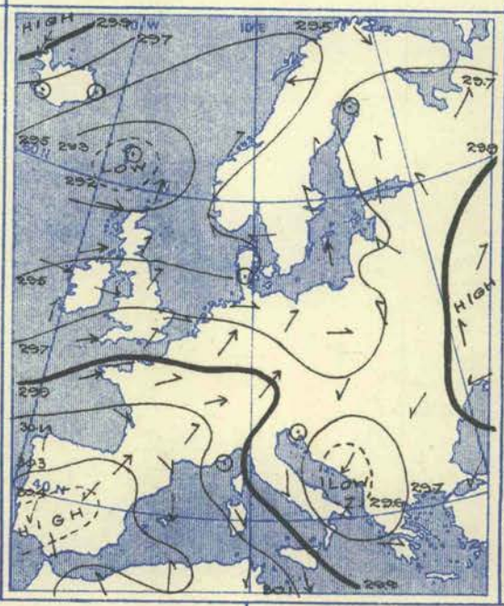
Tuesday, 26th December, 1911.

Temperature and Weather.

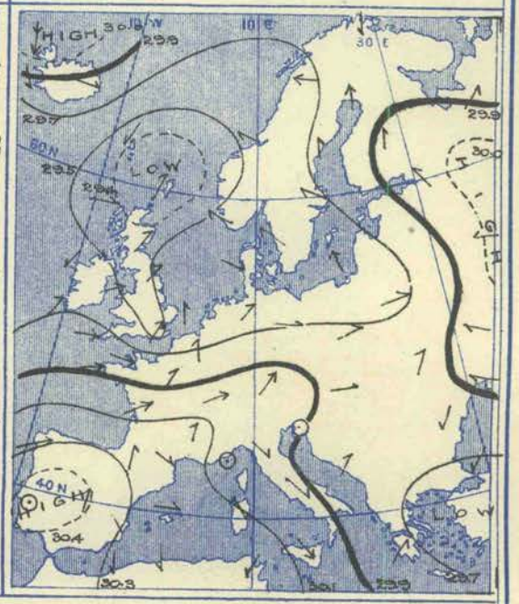
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to bright over a considerable area in the south, but mostly very cloudy or overcast, with rain in several parts of the United Kingdom, Denmark and Germany, as well as at Lesina and Patras; snow falling at Kuopio. Continuing dry all day in the north-east of Great Britain, but rain experienced over these Islands generally, and rain or snow in the central and northern countries of the Continent.

Temperature fallen in Russia and at many places in the south of Europe, risen generally elsewhere. Morning readings ranging from 58° at Malta and 56° at Palma to below 40° over the major portion of the Continent and at many of our own stations to below 32° in the east and north-east of our area; thermometer as low as 16° at Moscow. Maxima during day about 50° in several parts of Ireland and England, and also over a large part of France; below 45° over nearly the whole of central Europe, and only 48° at Florence. Above 60° at various places in the south of our area.

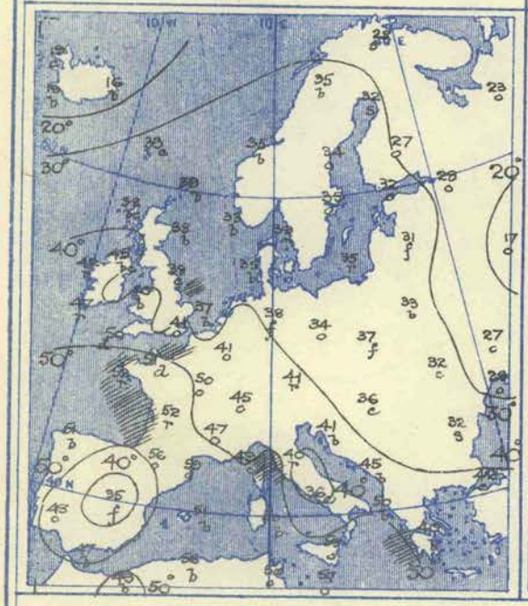
Wind in morning light to fresh or strong from the South-Westward or Westward over these Islands and France, and moderate to a gale from the Northward in Iceland. A complete cyclonic circulation of varying force prevailing over Italy and the Adriatic region; North-Westerly current high or strong in Corsica and Sardinia. No change of importance occurring during day.

Barometer in morning above 30·4 in. in the extreme south-west of the Continent; below 29·6 in in a depression over the Adriatic, rather lower in a secondary over North Germany and Denmark, and below 29·2 in. in another disturbance centred near Thorshavn. Southern depression moving quickly Eastward during day and that in the north remaining stationary and at the same time becoming less deep. A secondary disturbance of a "V-shaped" character travelling eastward across England. South-western anticyclone maintaining its position and intensity.

Wednesday, 27th December, 1911.

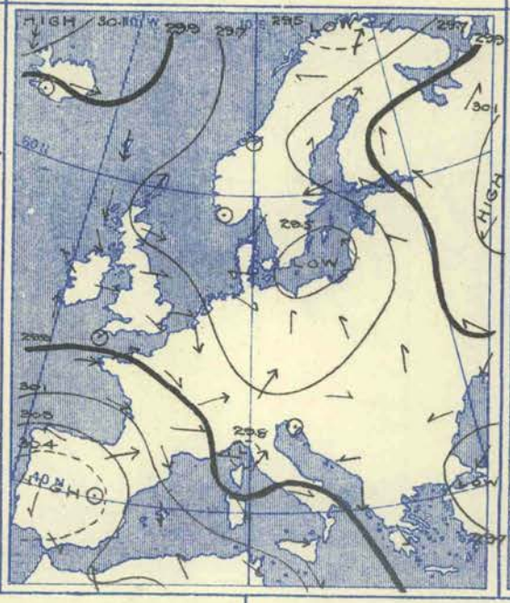
Temperature and Weather.

7 a.m.

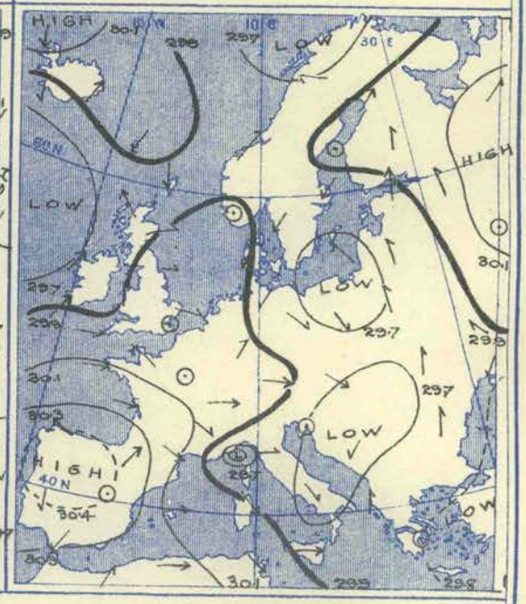


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning cloudy or overcast at nearly all stations over the northern half of our area, with rain in Ireland and the south-west of England as well as in several parts of France and Denmark, and snow in the north of Scandinavia. Mostly fair to bright in the south of Europe and over the Mediterranean, but rain falling at Florence and snow at Bucharest. More or less precipitation occurring later over the major portion of our area, but none in the Netherlands, the Spanish Peninsula, the Riviera and Algeria; about 0·5 in. in central France.

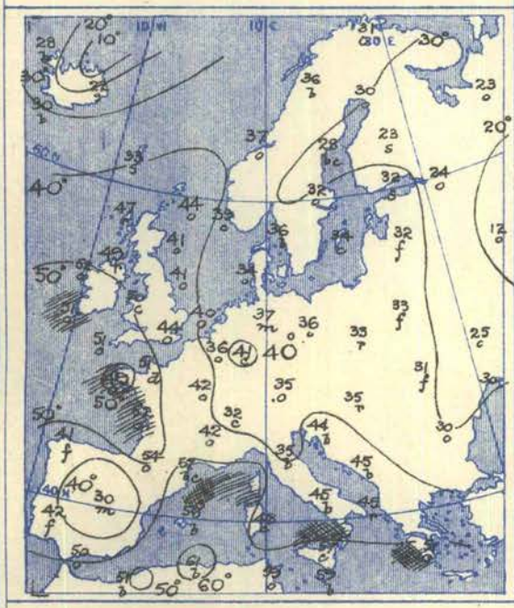
Temperature changed little generally; risen in France and northern Italy. Readings in morning 17° at Moscow, below 32° over Russia as a whole, and below 40° over the major portion of the Continent and these Islands. Above 50° in many parts of France and on the coasts of the Spanish Peninsuls and Algeria. Rising to 56° at Blacksod Point during day and to about 50° at many of our stations, as well as in France and northern Italy. Readings exceeding 60° at a few places in the south of our area, but only 52° in Greece and 49° at Rome.

Wind in morning mainly cyclonic except over the Spanish Peninsula. Force varying considerably, but moderate or light generally. A high wind from South-West prevailing on the Gulf of Genoa, a fresh breeze from West on the Bay of Biscay, and a gale from North in the north-west of Iceland. No change of importance taking place during day.

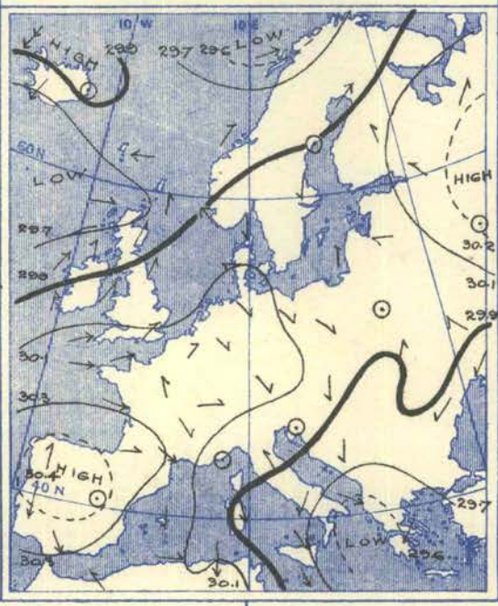
Barometer in morning above 30·4 in. in Spain and Portugal. Below 29·5 in. in a depression over the Baltic, and relatively low in the south-east of Europe and on the Gulf of Genoa, and also in the extreme north of Norway. Very little modification occurring in the general distribution later. Barometer rising rather decidedly over the North Sea region, and Baltic depression decreasing somewhat in intensity.

Thursday, 28th December, 1911.

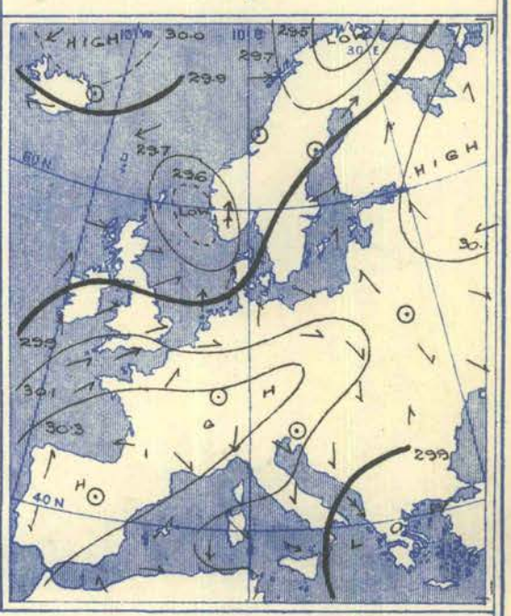
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning dull in nearly all parts of these Islands, France, and the central countries of Europe, with rain in a few localities. Mostly fair to bright elsewhere, but overcast, with rain, in the south-east of Italy, and snow falling in central Finland. Heavy rain or snow later in Scandinavia and Denmark, and some rain in the United Kingdom and at several stations in central Europe.

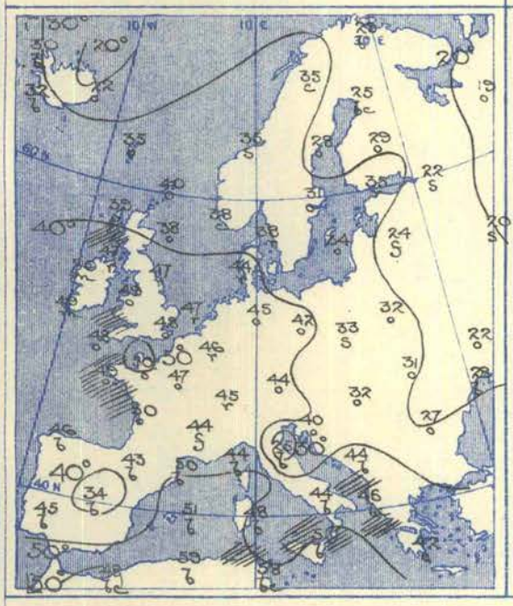
Temperature fallen in most regions, risen in this country and the west of Norway. Readings in morning below 20° in central Russia, and below 32° at numerous stations in the east and north-east of our area; about 50° in Ireland and the south-west and south of England, and above 55° at various places on the Mediterranean; 61° at Algiers. Maxima during day above 50° over the greater part of these Islands, France, and the southern countries, above 60° at many places on the shores of the Mediterranean; 68° at Algiers, 70° at Barcelona, and 73° at Malaga. Thermometer failing to reach 40° over a large area in central Europe.

Wind in morning strong from South-West at Blacksod Point, but light or moderate in these Islands generally. Fresh to high from the North-Westward over the Mediterranean, strong from between South-West and South-East in the north of Norway, and blowing a gale from North-East on the north-west coast of Iceland. Becoming strong from South later in Jutland, increasing to a gale in the south-west of Norway, and to a high wind from the Eastward at Thorshavn.

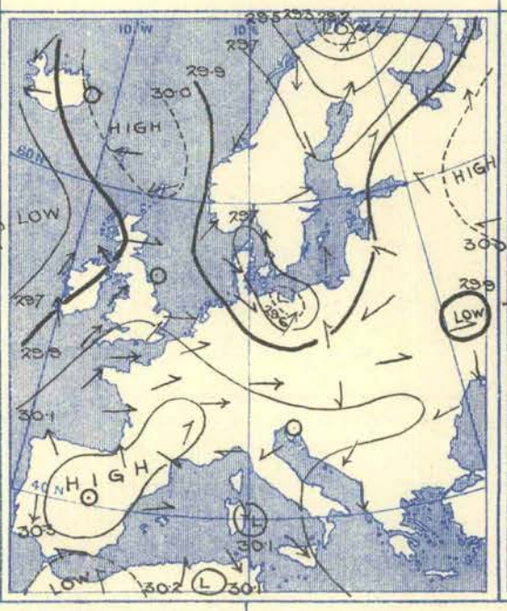
Barometer in morning above 30·3 in. in an anticyclone over the Spanish Peninsula, and relatively high thence in a ridge extending to the south of Scandinavia. Below 29·6 in. in a depression centred between Greece and Italy and also in a secondary off the north-west of Scotland. Low in the far north-west of Norway, and also on the Atlantic. Scottish depression moving Eastward during day, and some modification occurring in the positions and intensity of the other low pressure systems, but little alteration in the general distribution of pressure.

Friday, 29th December, 1911.

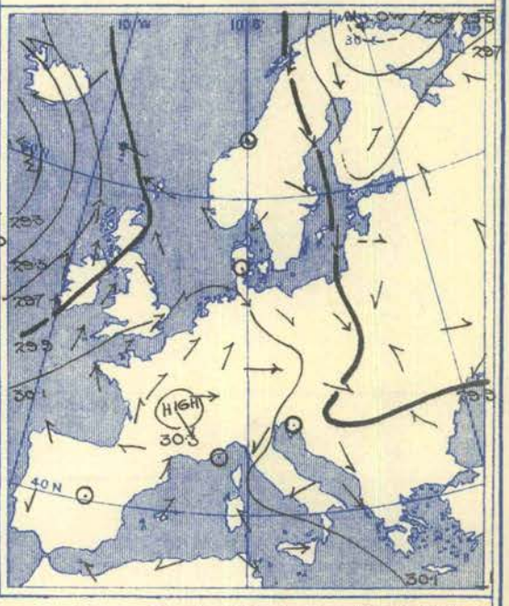
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning mainly overcast, with rain in places, over these Islands, Denmark, Germany, and the northern half of France. Snow falling in some parts of Russia and at a few German stations. Fair to bright over the south of our area. Rain later in nearly the whole of the United Kingdom and central Europe, and slight snow in Russia, but condition remaining dry generally elsewhere.

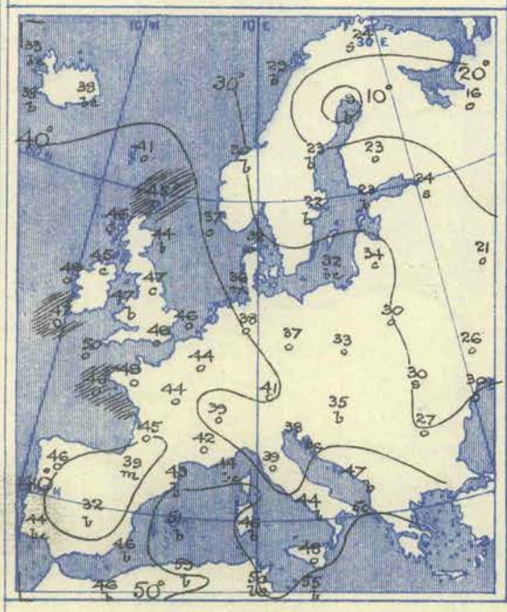
Temperature risen over the central countries, the Netherlands, and the south-east of England, fallen or changed irregularly elsewhere. Morning readings ranging from 59° at Algiers, about 50° at many other stations on the shores of the Mediterranean and on the south coast of England to below 32° at Florence and a very large area in the east and north of the Continent. Thermometer touching or exceeding 50° later in various parts of these Islands, France and Italy, to between 60° and 70° in the Spanish Peninsula and Algeria; touching 70° at Malaga.

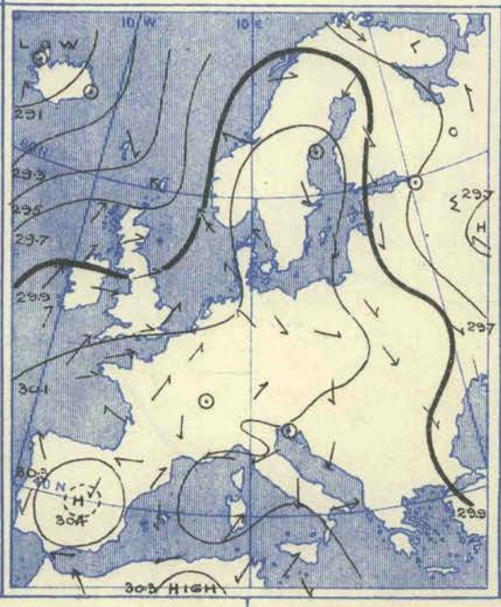
Wind in morning cyclonic except over France and the Spanish Peninsula, but mostly light or moderate in force. Fresh from the Southward at Blacksod Point, strong from South-West at Skudesnaes, high from East in the south-west of Iceland, and a gale South-West at Vardö. A high wind from North prevailing at Brindisi. Increasing considerably from the Southward on our extreme north-west coasts during day and from the Northward over the north of Scandinavia; blowing a gale at Vardö. A gale from North also springing up at Prague.

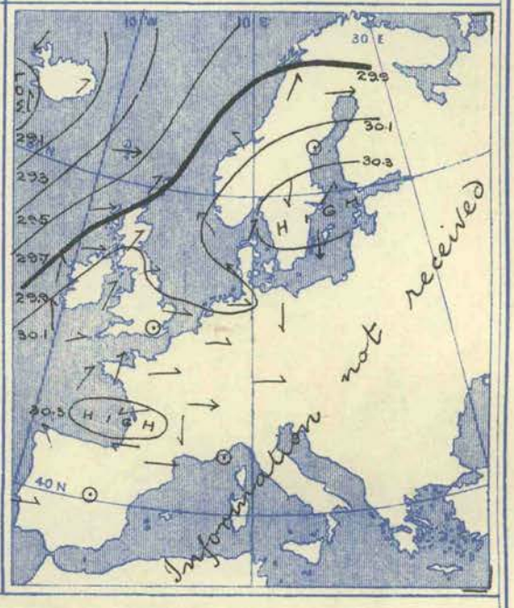
Barometer in morning above 30·2 in. over a considerable area in the south-west of Europe. below 29·6 in. in a depression over North Germany, and below 29·2 in. in another system in the extreme north of Norway and beyond. Below 29·4 in. in a depression on the Atlantic far beyond Ireland. Barometer falling decidedly in Iceland during day, and steadily in the north-west of these Islands. German depression moving quickly in an Easterly direction, and high pressure system in the south-west of Europe extending North-Eastwards.

Saturday, 30th December, 1911.

Temperature and Weather	Barometer and Wind	
7 a.m.	7 a.m.	6 p.m.







Weather in morning very cloudy or overcast over these Islands, France, the central countries and Russia, with rain at Pembroke and Lerwick and snow in Poland and at St. Petersburg. Generally fair to bright over the Mediterranean region and Scandinavia, but snow falling at Vardö. Small quantities of rain experienced later in many parts of the United Kingdom, Germany, the Netherlands and Norway.

Temperature fallen generally, risen in Scotland. Morning readings ranging from below 20° over a large area in Russia and Sweden and below 40° in most parts of central Europe and in the north of Italy to 50° at Scilly and to 55° or above at a few stations in the extreme south of our area. Thermometer again rising to about 50° during day over a large portion of England and Ireland, but remaining below 45° in the east and north-east of France and in Belgium. Rising to 63° at Corunna and to 70° at Perpignan. Minima at night about 32° in central and eastern England.

Wind in morning mainly South-Westerly over these Islands, and high from the South-Eastward at Skudesnaes and Lerwick. A gale from North-West prevailing at Vardö, and light breezes from North or North-West over the eastern half of our area generally. An irregular cyclonic movement of light or moderate breezes over the Mediterranean. No change of importance later in the United Kingdom or its immediate neighbourhood, but strong South-Easterly breezes setting in on the coast of Jutland. Wind decreasing in force at Skudesnaes and Lerwick.

Barometer in morning above 30·4 in. in central Spain and relatively high thence to Germany and Scandinavia. Below 29·1 in. over the western half of Iceland, and relatively low in depressions over Russia and the Mediterranean. Southern anticyclone extending somewhat in a Northerly direction during day, but a secondary disturbance becoming more marked over the North Sea. Little change taking place within the Icelandic region.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	2,000 (4,920 ft.)	2,500 (6,560 ft.)	3,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1911.											Metres.	
1	Dec. 22nd, 11.40 a.m.	* Aberdeen	Temperature Humidity .. Wind .. .	 225°, 2·2	 213°, 6·6	 221°, 16·6	 270°, 8·3	 232°, 1·0	 199°, 4·8	 233°, 6·2	 254°, 5·9	5,000	Two theodolites. Two balloons attached. Lifting power of upper balloon 52·5 grammes; of lower one, 37·5 grammes. The last figures, at 5,000 m, are taken from observations at one station only, assuming rate of ascent to be uniform.
2	Dec. 26th, 11.30 a.m. to 12.50 p.m.	Brighton, 115 m.	Temperature. Humidity .. Wind .. .	280° 92% 260°, 6	278° 92% 260°, 13	277° 85% 270°, 16	278·5° 85% 270°, 18						Overcast. Rain commenced at noon. Very steady wind at all altitudes. Humidity: 75% at about 600 m.
3	Dec. 31st,	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	281° 100% 225°, 5	280·5° 100% 235°, 7	280° 100% 260°, 9					280° 100% 280°, 9	850	Inclined to be foggy. Overcast. Clouds at 400 m.

* Observation with two Theodolites at Stations *A* and *B*.—*A* Woodside, 32·6 m. *B* King's College, 35·4 m., distant 920 m., 15°, from *A*.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	—	1	1
Area of Surface (sq. metres) ..	—	7	8
Capacity of Balloon (cub. metres)	0·05 upper balloon. 0·04 lower balloon.	—	—
Length of Wire (metres)	—	1,500	1,200

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

SPECIAL SUPPLEMENT FOR 1911, [*Price 4d.*

INCLUDING SUMMARIES OF THE RECORDS OBTAINED WITH KITES AND REGISTERING BALLOONS, AND OF THE OBSERVATIONS OF SEA-TEMPERATURE, AND A TABLE OF CORRECTIONS TO REPORTS NOS. 48–52.

Registering Balloon Ascents in 1911 received too late for insertion in the current issues.

Height.	1. MANCHESTER. 53° 27′ N., 2° 14′ W. Nov. 9th, 7.0 a.m.			2. PYRTON HILL. 51° 38′ N., 1° 1′ W. Dec. 5th, 3.28 p.m.		3. MANCHESTER. 53° 27′ N., 2° 14′ W. Dec. 6th, 7.0 a.m.			4. PYRTON HILL. 51° 38′ N., 1° 1′ W. Dec. 6th, 7.0 a.m.		5. PYRTON HILL. 51° 28′ N., 1° 1′ W. Dec. 6th, 3.15 p.m.		6. MANCHESTER. 53° 27′ N., 2° 14′ W. Dec. 8th, 6.50 a.m.			Height.
km. M. S. L.	mgd. 1·011	°A. —	°A.	mgd. 1·008	°A. —	mgd. 1·013	°A. —	°A.	mgd. 1·010	°A. —	mgd. 1·016	°A. —	mgd. 1·005	°A. —	°A.	km. M. S. L.
Ground	1·008	276		·984	280	1·010	275·5		·998	274	·998	276	1·000	275		Ground
0·5	·938	277		·941	278	·753	273·5	277	·955	275·5	·954	275	·943	271		0·5
1·0	·879	273		·885	273·5	·898	270	274	·897	272·5	·894	272	·884	267·5		1·0
1·5	·827	269		·834	270	·843	267	271	·843	268·5	·841	268·5	·830	266	265	1·5
2·0	·776	265		·782	266	·790	263·5	267·5	·791	265	·788	265	·777	264·5	262·5	2·0
2·5	·728	261		·733	261	·738	260·5	264·5	·740	261	·738	261·5	·725	262·5	260·5	2·5
3·0	·683	257		·688	257·5	·692	256·5	261	·693	258	·692	258	·680	259	258	3·0
3·5	·637	254	252	·645	253	·647	252·5	256·5	·649	254	·648	254	·636	255·5		3·5
4·0	·592	251	247	·604	249	·604	248·5	253	·608	250	·608	250	·596	252		4·0
4·5	·551	247·5	240	·564	245	·564	245	249	·568	246	·568	247	·556	249		4·5
5·0	·514	241·5	235·5	·527	241·5	·527	242·5	246	·529	242	·529	248	·519	245·5		5·0
5·5	·479	238	232	—	—	·490	240	243·5	—	—	—	—	·483	242		5·5
6·0	·447	234·5	229	·458	238	·456	238	240·5	·458	234	·461	241	449	239		6·0
6·5	·414	231	227·5	—	—	·424	236·5	238·5	—	—	—	—	·417	234·5		6·5
7·0	·384	229	226·5	·396	232	·396	236·5	238	·396	228·5	·399	233	·388	231		7·0
7·5	·357	229	226	—	—	·367	236	237·5	—	—	—	—	·360	227·5		7·5
8·0	·330	229·5		·341	225	·342	235·5	237	·341	225	·344	226	·334	224·5	222·5	8·0
8·5	·307	230·5		—	—	·319	235·5	237	—	—	—	—	·311	222·5	220·5	8·5
9·0	·285	231·5		·294	221	·297	235·5	236·5	·294	221	·297	223	·289	220		9·0
9·5	·266	231·5		—	—	·275	236·5		—	—	—	—	·266	220		9·5
10	·246	231		·253	220	—	—		·254	221·5	·257	220	·245	218		10
11	·212	229		·218	222	—	—		·218	222	·221	220	·212	220		11
12	·182	228		—	—	—	—		·192	221	·191	218	·182	220		12
13	·156	228		—	—	—	—		·164	221	·164	217·5	·153	219·5		13
14	·134	229	226	—	—	—	—		—	—	·141	217	·133	218·5		14
15	·116	229	226	—	—	—	—		—	—	—	—	·114	218	216	15
16	·101	228·5	226·5	—	—	—	—		—	—	—	—	·097	217	214·5	16
17	·088	228		—	—	—	—		—	—	—	—	·083	216	215	17
18	·076	228·5		—	—	—	—		—	—	—	—	—	—	—	18
19	·065	229		—	—	—	—		—	—	—	—	—	—	—	19
20	·056	229		—	—	—	—		—	—	—	—	—	—	—	20
21	·049	229·5		—	—	—	—		—	—	—	—	—	—	—	21
At Min. Pressure.	·043	229·5		·218	222	·266	235°		—	—	·141	217	·073	216°		At Min. Pressure.
Max. Height (km.).	21·7			11·5		9·7			13·7		14		17·6			Max. Height (km.).
Min. Temp. ..	226° at 7·5, 14, 15 km.			220° at 10 km.		235° at 9·7 km.			221° at 8·8 km.		217° at 14 km.		214·5° at 16·0 km.			Min. Temp.
Hc.; Tc. ..	7·4 km., 229°			8·7 km., 221°		? 8·0 km., 235·5°			8·8 km., 221°		9·7 km., 220°		9·0 km., 220°			Hc.; Tc.
Place of Fall	S. Milford, Yorks			Kimbolton		Darton, nr. Barnsley			Welwyn		Hever, Kent		Hatfield, nr. Doncaster.			Place of Fall.
Distance and Direction.	72 km., 61°			83 km., 56°		48 km., 81°			56 km., 70°		91 km., 120°		83 km., 84°			Distance and Direction.
Gradient °C. per 100 m.	0·69			0·64		0·55			0·59		0·59		0·63			Gradient °C. per 100 m.
Ground to ..	7 km.			9 km.		7 km.			9 km.		9 km.		7 km.			Ground to.

NOTES.

2. Cloudy. Wind S.W., force 3. Isothermal at **235°** A., 6·3 to 6·6 km. 4. Clear. Wind W., force 2. 5. Clear. Wind S., force 4. Unusual inversion **247** °A. at 4·4 km. to **248** °A. at 5·1 km.

H_c and T_c are the height and temperature at which the stratosphere begins.

(23974—24.) Wt. 173—814. 450. 5/12. D & S.

SUMMARY OF THE RESULTS OBTAINED BY KITES AND REGISTERING BALLOONS.

Mean Temperature for each month and for the year at different Heights. The mean for the year is the Mean of the Monthly Means.

PYRTON HILL.

Height. km.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Year.		Height. km.
	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	°A.	No. of Ascents.	
Ground	276·3	2	270	2	—	0	271	2	276	2	288·7	3	—	0	290	1	287·1	8	284·5	1	—	0	276·7	3	280·0	24	Ground
1	273·8	2	272	2	—	—	262·5	2	276·3	2	286·7	3	—	—	285	1	285·6	8	278·5	1	—	—	272·7	3	277·0	24	1
2	270·5	2	270	2	—	—	255·5	2	271	2	280·3	3	—	—	279	1	278·6	8	271	1	—	—	265·3	3	271·2	24	2
3	263·8	2	266·5	2	—	—	249·8	2	267	2	275·6	3	—	—	273	1	273·3	8	265·5	1	—	—	257·8	3	265·8	24	3
4	257	2	260·8	2	—	—	245·5	2	261·8	2	269·2	3	—	—	266	1	266·8	8	262	1	—	—	249·7	3	260·0	24	4
5	250	2	253	2	—	—	239·8	2	256·5	2	260·2	3	—	—	261	1	261·0	8	255	1	—	—	243·8	3	252·3	24	5
6	242·8	2	245·8	2	—	—	234·3	2	249·8	2	256·7	3	—	—	254·5	1	254·7	8	248	1	—	—	237·7	3	247·1	24	6
7	236	2	238·5	2	—	—	228·5	2	243·3	2	247·5	3	—	—	246·5	1	248·0	8	241	1	—	—	231·2	3	240·1	24	7
8	228·5	2	230·8	2	—	—	225·3	2	236	2	238·5	3	—	—	239	1	240·4	8	235	1	—	—	225·3	3	233·6	24	8
9	224·5	2	223·5	2	—	—	223·3	2	229	2	229·9	3	—	—	233	1	233·7	8	227	1	—	—	221·7	3	227·3	24	9
10	219	2	215·3	2	—	—	222	2	222·8	2	221·8	3	—	—	226·5	1	226·4	8	223	1	—	—	220·5	3	222·0	24	10
11	210	1	210·5	2	—	—	221·8	2	220·5	2	215·0	3	—	—	221	1	221·4	8	224	1	—	—	221·3	3	218·4	23	11
12	203	1	208	2	—	—	222·5	2	221	1	212·7	3	—	—	217·5	1	218·8	8	225	1	—	—	219·5	2	216·4	21	12
13	202	1	205	1	—	—	221·8	2	220	1	215·7	3	—	—	220	1	219·1	8	224	1	—	—	219·3	2	216·3	20	13
14	206	1	211	1	—	—	221·3	2	220	1	216·3	3	—	—	220	1	219·9	8	223	1	—	—	217	1	217·3	19	14
15	210	1	—	—	—	—	222·5	1	—	—	215·8	3	—	—	220	1	220·4	7	223	1	—	—	—	—	—	14	15
16	—	—	—	—	—	—	—	—	—	—	224·9	2	—	—	220	1	221·6	5	222·5	1	—	—	—	—	—	9	16
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	220	1	222·0	5	222	1	—	—	—	—	—	7	17
18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	220·5	1	223·0	5	221·5	1	—	—	—	—	—	7	18
19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	220·5	1	223·5	4	—	—	—	—	—	—	—	5	19
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	221	1	225	1	—	—	—	—	—	—	—	2	20

RATE OF FALL OF TEMPERATURE (GRADIENT) ABOVE 8 KM. DEGREES C. PER KM.

Height. km.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Year.		Height. km.
	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	°C.	No. of Ascents.	
8-9	4·0	2	7 3	2	—	0	2·0	2	7·0	2	8·6	3	—	0	6·0	1	6·7	8	8·0	1	—	0	3·6	3	6·3	24	8-9
9-10	5·5	2	8·2	2	—	—	1·3	2	6·2	2	8·1	3	—	—	6·5	1	7·3	8	4·0	1	—	—	1·2	3	5·3	24	9-10
10-11	9·0	1	4·8	2	—	—	0·2	2	2·3	2	6·8	3	—	—	5·5	1	5·0	8	-1·0	1	—	—	-0·8	3	3·6	23	10-11
11-12	7·0	1	2·5	2	—	—	-0·7	2	-0·5	1	2·3	3	—	—	3·5	1	2·6	8	-1·0	1	—	—	1·8	2	2·0	21	11-12
12-13	1·0	1	3·0	1	—	—	0·7	2	1·0	1	-3·0	3	—	—	-2·5	1	-0·3	8	1·0	1	—	—	0·2	2	0·1	20	12-13
13-14	-4·0	1	-6·0	1	—	—	0·5	2	0·0	1	-0·6	3	—	—	0·0	1	-0·8	8	1·0	1	—	—	2·3	1	-1·0	19	13-14
14-15	-4·0	1	—	—	—	—	-1·2	1	—	—	0·5	3	—	—	0·0	1	-0·5	8	0·0	1	—	—	—	—	-3·0	14	14-15
15-16	—	—	—	—	—	—	—	—	—	—	-9·1	2	—	—	0·0	1	-1·2	8	0·5	1	—	—	—	—	-2·0	9	15-16

MANCHESTER.

Height. km.	January. °A.	No. of Ascents.	February. °A.	No. of Ascents.	March. °A.	No. of Ascents.	April. °A.	No. of Ascents.	May. °A.	No. of Ascents.	June. °A.	No. of Ascents.	July. °A.	No. of Ascents.	August. °A.	No. of Ascents.	September. °A.	No. of Ascents.	October. °A.	No. of Ascents.	November. °A.	No. of Ascents.	December. °A.	No. of Ascents.	Year—Mean of Monthly Means. °A.	No. of Ascents.	Height. km.
Ground	278	1	?271·5	1	282·3	3	—	0	284·5	1	288	2	—	0	291	1	286·4	5	—	0	276	1	275·3	2	281·4	17	Ground
1	?274	1	281·8	1	273·8	2	—	—	275·3	1	279·5	2	—	—	281·5	1	281·5	5	—	—	273	1	269·3	2	276·7	16	1
2	271·5	1	277	1	269	2	—	—	268·8	1	275·3	2	—	—	273	1	279·1	5	—	—	265	1	264·5	2	271·5	16	2
3	264·5	1	268·3	1	264·5	2	—	—	262·3	1	272	2	—	—	271	1	273·4	5	—	—	257	1	253·7	2	265·7	16	3
4	257	1	262·5	1	260·7	3	—	—	257·3	1	266·3	2	—	—	264	1	266·3	5	—	—	249	1	251·4	2	259·4	17	4
5	251	1	257	1	253·3	3	—	—	?253·1	1	259·5	2	—	—	257	1	259·3	5	—	—	238·5	1	244·9	2	252·6	17	5
6	244	1	250·3	1	245·7	3	—	—	248·8	1	251·5	2	—	—	249	1	252·1	5	—	—	231·8	1	239·2	2	245·8	17	6
7	237·5	1	243	1	238·7	3	—	—	240·3	1	243	2	—	—	240·5	1	244·9	5	—	—	227·8	1	234·2	2	239·2	17	7
8	233	1	234·5	1	232·3	3	—	—	231·8	1	235·7	2	—	—	233	1	237·4	5	—	—	229·5	1	229·9	2	233·0	17	8
9	228	1	226·3	1	225·8	3	—	—	225	1	226	2	—	—	226·5	1	231·0	5	—	—	231·5	1	228	2	227·6	17	9
10	226	1	218	1	218·6	3	—	—	220	1	218·5	2	—	—	225·5	1	224·6	5	—	—	231	1	218	1	221·6	16	10
11	219·5	1	209·5	1	216·2	3	—	—	218·8	1	213·3	2	—	—	225·5	1	222·7	5	—	—	229	1	220	1	219·4	16	11
12	222	1	208·5	1	216·5	3	—	—	217·5	1	211·5	1	—	—	226·8	1	223·4	5	—	—	228	1	220	1	219·4	15	12
13	222·5	1	211	1	221·2	3	—	—	219	1	214	1	—	—	225	1	223·3	5	—	—	228	1	219·5	1	220·4	15	13
14	222	1	213	1	222·7	2	—	—	218	1	214	1	—	—	226	1	223·3	5	—	—	227·5	1	218·5	1	220·6	14	14
15	222	1	215·5	1	222·8	2	—	—	218	1	214	1	—	—	227	1	223·6	5	—	—	227·5	1	217	1	220·8	14	15
16	221·5	1	216·5	1	220	1	—	—	—	—	214·5	1	—	—	226·5	1	224·3	5	—	—	227·5	1	215·3	1	220·5	12	16
17	—	—	217	1	219·5	1	—	—	—	—	—	—	—	—	226·5	1	222·7	4	—	—	228	1	215·5	1	—	9	17
18	—	—	217·5	1	218·5	1	—	—	—	—	—	—	—	—	226	1	224·4	3	—	—	228·5	1	216	1	—	8	18
19	—	—	218	1	218	1	—	—	—	—	—	—	—	—	226	1	225·2	2	—	—	229	1	—	—	—	6	19
20	—	—	218·5	1	—	—	—	—	—	—	—	—	—	—	226	1	225·8	2	—	—	229	1	—	—	—	5	20
21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	226	1	226·8	2	—	—	229·5	1	—	—	—	4	21
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	226	1	231·3	1	—	—	—	—	—	—	—	2	22
23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	226	1	—	—	—	—	—	—	—	—	—	1	23
24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	226	1	—	—	—	—	—	—	—	—	—	1	24
25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	226	1	—	—	—	—	—	—	—	—	—	1	25

RATE OF FALL OF TEMPERATURE (GRADIENT) ABOVE 8 KM. DEGREES C. PER KM.

Height. kms.	January. °C.	No. of Ascents.	February. °C.	No. of Ascents	March. °C.	No. of Ascents.	April. °C.	No. of Ascents.	May. °C.	No. of Ascents.	June. °C.	No. of Ascents.	July. °C.	No. of Ascents.	August. °C.	No. of Ascents.	September. °C.	No of Ascents	October. °C.	No. of Ascents	November. °C.	No. of Ascents	December. °C.	No. of Ascents.	Year. °C.	No. of Ascents.	Height kms.
8-9	5·0	1	8·2	1	6·5	3	—	0	6·8	1	9·7	2	—	0	6·5	1	6·4	5	—	0	-2·0	1	1·9	2	5·4	17	8-9
9-10	8·0	1	8·3	1	7·2	3	—	—	5·0	1	7·5	2	—	—	1·0	1	6·4	5	—	—	-0·5	1	10·0	1	6·0	16	9-10
10-11	0·5	1	8·5	1	2·4	3	—	—	1·2	1	5·2	2	—	—	0·0	1	1·9	5	—	—	2·0	1	-2·0	1	2·2	16	10-11
11-12	-2·5	1	1·0	1	-0·3	3	—	—	1·3	1	1·8	1	—	—	-1·3	1	-0·7	5	—	—	1·0	1	0·0	1	0·0	15	11-12
12-13	-0·5	1	-2·5	1	-4·7	3	—	—	-1·5	1	-2·5	1	—	—	1·8	1	0·1	5	—	—	0·0	1	0·5	1	-1·0	15	12-13
13-14	0·5	1	-2·0	1	-1·5	2	—	—	1·0	1	0·0	1	—	—	-1·0	1	0·0	5	—	—	0·5	1	1·0	1	-0·2	14	13-14
14-15	0·0	1	-2·5	1	-0·1	2	—	—	0·0	1	0·0	1	—	—	-1·0	1	-0·3	5	—	—	0·0	1	1·5	1	-0·2	14	14-15
15-16	0·5	1	-1·0	1	2·8	1	—	—	—	—	-0·5	1	—	—	0·5	1	-0·7	5	—	—	0·0	1	1·7	1	0·3	12	15-16

Height and Temperature at which the Stratosphere or Advective Region was reached.

Month.	Pyrton Hill. Mean Height. H_c	Pyrton Hill. Mean Temperature. T_c	Pyrton Hill. No. of Ascents.	Manchester. Mean Height. H_c	Manchester. Mean Temperature. T_c	Manchester. No. of Ascents.
1911.	km.	°A.		km.	°A.	
January	11·0	212	2	10·0	220	1
February	10·5	211·3	2	11·8	207	1
March	—	—	0	11·3	213·7	3
April	10·0	221·5	2	—	—	0
May	? 10·7	220·3	2	11·0	218	1
June	11·8	212	3	11·5	210	1
July	—	—	0	—	—	0
August...	11·3	217	1	9·0	226·5	1
September	11·6	216·8	8	10·2	221·5	5
October	10·0	223	1	—	—	—
November	—	—	—	7·0	227·8	1
December	9·1	220·7	3	8·5	228·2	2
Year	10·7	217·2	24	10·0	219·2	16
Months	9	—	—	9	—	—

Summary of Kite Ascents, 1911.

Pyrton Hill.

—	January. Temperature.	January. No. of Ascents.	February. Temperature.	February. No. of Ascents.	March. Temperature.	March. No. of Ascents.	April. Temperature.	April. No. of Ascents	May. Temperature.	May. No. of Ascents.	June. Temperature.	June. No. of Ascents.	July. Temperature.	July. No. of Ascents.	August. Temperature.	August. No. of Ascents.	September. Temperature.	September. No. of Ascents.	October. Temperature.	October. No. of Ascents.	November. Temperature.	November. No. of Ascents	December. Temperature.	December. No. of Ascents.	Year. Temperature.	Year. No. of Ascents.
													Interpolated for use in Annual Mean.													
Surface	277·2	7	280·3	10	278·4	7	285·6	8	286·1	4	288·2	7	*293·3*	—	*294·4*	—	289·0	2	284·5	5	281·6	4	278·5	6	284·8	60
100 m. above surface.	276·6	7	279·8	7	277·1	6	284·6	8	285·0	4	287·2	7	*291·6*	—	*292·8*	—	*287·3*	2	283·7	5	281·1	4	278·1	6	283·7	56
500 m. above M.S.L.	274·4	7	277·4	9	274·1	7	281·5	8	281·8	4	284·9	7	*290·2*	—	*289·8*	—	280	1	281·5	5	278·4	4	276·7	6	280·9	58
1,000 m. above M.S.L.	273·3	5	**272·6**	4	**271·7**	5	277·4	4	279·3	3	281·4	7	*284·5*	—	*282·8*	—	278	1	276·8	3	273·5	2	273·5	2	277·1	36
1,500 m. above M.S.L.	275·0	1	**272·0**	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**269**	1	—	4

Brighton.

Surface	279·0	2	277·3	3	280	1	**288·8*	—	289·3	5	288·1	6	293·2	8	294·3	8	290·8	2	286·4	2	**283·5*	—	280	1	285·9	38
100 m. above surface.	279·4	2	*276·5**	—	279·5	1	*287·6*	—	288·0	5	286·3	5	290·7	7	291·9	7	288·8	2	284·1	2	*281·5*	—	278	1	284·4	32
500 m. above M.S.L.	277·0	2	**272·7**	1	*276**	—	*285·0*	—	285·3	5	283·4	6	288·7	5	288·3	6	286·1	2	280·1	1	*277·0*	—	277	1	281·4	29
1,000 m. above M.S.L.	283	1	—	—	—	—	—	—	288	1	283·0	3	286·1	2	284·4	5	—	—	277·5	1	—	—	273·5	1	—	14
1,500 m. above M.S.L.	—	—	—	—	—	—	—	—	—	—	—	—	285·5	2	281·8	2	—	—	—	—	—	—	—	—	—	4

* Interpolated for use in Annual Mean.

Mean Sea Temperature in Degrees Fahrenheit, 1911, and Differences from the five years averages.

Period of 4 weeks.		SCOTLAND, N.						SCOTLAND, E.						SCOTLAND, N.E.				ENGLAND, E.				ENGLAND, S.E.	
		LERWICK.		KIRKWALL.		WICK.		CROMARTY.		PENNAN BAY.		ABERDEEN.		BERWICK.		SCARBOROUGH.		SHIPWASH.		MARGATE.		EASTBOURNE.	
		Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.
1	Jan. 1-28	42°·8	-0°·5	41°·0	+0°·1	43°·8	-0°·9	38°·8	-1°·2	40°·4	+0°·3	42°·0	+2°·4	40°·1	-0°·4	41°·9	+0°·6	41°·4	+0°·8	40°·6	+0°·4	41°·8	+0°·2
2	Jan. 28-Feb. 25 ..	41·8	-0·3	42·1	+1·6	43·7	+0·2	37·7	-1·2	39·8	-0·4	41·9	+2·0	38·7	-0·5	41·8	+1·6	40·2	+0·9	39·8	+0·2	39·9	+0·3
3	Feb. 25-Mar. 25..	41·9	-0·3	40·9	+0·4	43·2	+0·3	37·7	-1·8	39·7	-0·4	41·7	+1·1	38·5	-0·9	42·2	+1·8	42·0	+1·7	43·0	+1·7	44·4	+2·7
4	Mar. 25-Apr. 22..	43·4	-0·1	43·3	+0·1	43·6	0·0	39·9	-2·2	42·0	-0·9	42·7	-0·2	40·2	-1·2	42·1	-0·6	42·2	-0·5	42·8	-2·3	42·9	-2·0
5	Apr. 22-May 20..	45·7	+0·8	49·9	+3·8	46·1	+0·3	45·3	+0·2	45·5	-0·1	45·2	-0·1	44·6	+0·9	45·9	+0·4	48·9	+1·4	51·2	+0·8	50·4	+0·5
6	May 20-June 17..	49·0	+1·2	53·2	+2·2	49·8	+0·6	55·3	+4·0	50·6	-0·9	49·2	+0·3	50·3	+2·0	53·1	+3·1	55·2	+1·7	58·6	+1·2	58·2	+1·7
7	June 17-July 15..	51·6	+1·0	52·3	-0·7	51·9	0·0	57·2	+3·0	53·6	+0·3	52·7	+0·6	51·8	+0·5	55·7	+2·3	59·9	+1·9	61·4	+1·0	61·3	+1·1
8	July 15-Aug. 12..	53·5	+0·8	56·9	+1·7	54·2	+1·4	58·6	+2·2	56·9	+0·5	56·4	+1·7	55·5	+1·1	59·7	+2·9	65·1	+3·7	68·0	+4·1	66·3	+3·0
9	Aug. 12-Sept. 9 ..	54·5	+1·7	57·0	+2·2	55·4	+2·0	58·3	+2·4	56·4	+1·1	55·7	+1·1	54·9	+0·7	59·4	+2·7	67·2	+4·6	68·7	+5·2	67·5	+3·9
10	Sept. 9-Oct. 7 ..	52·8	+1·4	51·1	-1·1	51·9	-0·3	53·3	-0·5	53·6	+0·4	54·1	+1·4	51·4	-1·0	54·6	+0·6	62·0	+2·0	60·6	+0·5	61·7	+1·7
11	Oct. 7-Nov. 4 ..	50·6	+0·7	45·0	-3·5	51·5	0·0	48·9	-1·4	49·3	0·0	51·1	+0·9	48·4	-1·5	50·7	-0·6	55·3	-0·8	54·6	-0·9	55·6	-0·5
12	Nov. 4-Dec. 2 ..	47·2	+0·7	40·7	-3·1	48·1	-0·6	43·6	-0·5	45·5	+1·2	46·9	+0·9	44·5	-0·9	44·4	-2·1	49·4	+0·2	48·6	+1·3	49·6	+0·7
13	Dec. 2-Dec. 30 ..	46·1	+1·1	40·9	-1·8	45·6	-0·6	42·9	+1·1	44·2	+1·5	45·4	+1·7	42·2	-0·8	42·7	-1·4	46·7	+1·4	45·2	+0·4	46·9	+0·4
	Quarters.																						
1	Jan. 1-Apr. 1 ..	42·2	-0·4	41·5	+0·7	43·5	-0·2	38·1	-1·5	40·1	-0·2	41·8	+1·7	39·1	-0·7	41·8	+1·1	41·2	+1·0	41·2	+0·6	42·1	+0·9
2	Apr. 1-July 1 ..	47·0	+0·7	49·7	+1·8	47·4	+0·1	48·9	+1·2	47·1	-0·7	46·9	+0·1	46·3	+0·7	48·7	+1·3	50·9	+1·1	52·9	0·0	52·5	+0·1
3	July 1-Sept. 30 ..	53·5	+1·3	55·2	+1·0	53·7	+1·0	57·5	+2·1	56·1	+1·0	55·3	+1·3	54·2	+0·6	58·2	+2·4	64·7	+3·6	66·3	+3·8	65·5	+3·2
4	Sept. 30-Dec. 30..	48·2	+0·8	42·5	-3·0	48·7	-0·3	45·5	-0·5	46·6	+0·6	48·1	+1·1	45·3	-1·2	46·4	-1·3	51·1	+0·2	49·7	-0·2	51·2	0·0
	Year	47·7	+0·6	47·2	+0·1	48·3	+0·1	47·5	+0·3	47·5	+0·2	48·0	+1·0	46·2	-0·2	48·8	+0·9	52·0	+1·5	52·5	+1·1	52·8	+1·1
Year 1911.	Highest observed	55		60		57		63		60		58		56		66		71		72		69	
	Lowest observed	41		37		42		34		39		40		34		37		38		38		36	

Period of 4 weeks.		SCOTLAND, W.				ENGLAND, N.W.		ENGLAND, S.W.								IRELAND, N.W.				IRELAND, S.W.			
		LAMLASH.		BALLANTRAE		PORT ERIN.		NEWQUAY.		SCILLY.		PLYMOUTH.		SALCOMBE.		SHEEPHAVEN.		TEELIN.		CLEGGAN.		SEAFIELD.	
		Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from av.	Mean.	Diff. from 3 yrs. av.	Mean.	Diff. from av.	Mean.	Diff. from av.
1	Jan. 1-28	45°·5	+0°·2	42°·9	+0°·5	46°·0	0°·0	46°·5	+0°·2	47°·9	—	48°·2	+0°·7	46°·8	+0°·1	45°·0	+0°·1	44°·3	-0°·1	44°·9	+0°·8	46°·0	+0°·3
2	Jan. 28-Feb. 25 ..	44·2	+0·3	42·1	-0·4	44·7	+0·2	45·1	-0·8	46·9	—	45·9	-0·4	44·9	-0·2	44·9	+0·3	43·9	-0·1	43·7	-0·4	44·8	-0·7
3	Feb. 25-Mar. 25..	44·2	+0·6	43·2	+0·2	44·2	+0·4	46·6	+0·2	47·0	—	45·3	-0·6	45·6	+0·5	45·3	+0·5	45·2	+0·3	44·5	-0·1	46·2	+0·1
4	Mar. 25-Apr. 22..	45·0	+0·4	43·5	-1·0	44·4	-0·5	47·3	-0·9	47·6	—	46·2	-1·5	44·5	-2·1	46·7	+0·1	46·5	-0·6	45·8	-0·8	47·9	-0·5
5	Apr. 22-May 20..	48·4	+2·2	47·2	+0·1	47·5	+0·4	49·9	-0·9	51·3	—	48·3	-1·8	49·0	-0·6	50·2	+1·0	52·1	+1·0	50·5	+0·8	53·4	+1·8
6	May 20-June 17..	54·5	+3·1	52·6	+1·4	51·6	+1·2	57·0	+1·3	57·1	—	54·2	-0·1	54·2	+0·7	55·3	+1·1	57·3	+1·2	54·8	+0·9	58·1	+2·2
7	June 17-July 15..	55·0	+1·0	53·1	-0·7	54·4	+0·9	60·4	+1·7	57·3	—	59·6	+1·9	56·2	+0·4	57·5	+0·5	57·8	-0·5	54·9	-1·0	58·5	-0·3
8	July 15-Aug. 12..	57·1	+1·2	56·4	+0·5	57·4	+1·4	62·5	+0·9	59·6	—	64·1	+3·5	60·3	+1·9	59·2	+0·4	60·5	+0·5	56·7	-0·8	60·7	-0·4
9	Aug. 12-Sept. 9 ..	59·8	+4·1	58·7	+2·0	59·3	+2·4	61·9	+0·5	61·2	—	63·6	+3·4	62·6	+3·0	61·5	+2·1	61·8	+1·9	59·4	+2·0	61·0	+0·9
10	Sept. 9-Oct. 7 ..	55·2	+0·6	53·0	-1·0	56·5	+0·7	60·4	+0·9	57·5	—	59·6	+1·1	59·9	+1·1	56·8	+0·1	57·6	+0·5	54·6	-0·7	57·1	-0·7
11	Oct. 7-Nov. 4 ..	51·7	-0·2	49·2	-1·5	54·1	+0·4	57·3	+0·4	53·1	—	55·0	-1·2	56·7	+0·3	52·3	-0·9	52·7	-0·6	50·3	-1·3	53·4	-0·2
12	Nov. 4-Dec. 2 ..	46·5	-2·5	43·0	-2·8	49·6	-0·8	51·7	-0·1	50·6	—	49·8	-2·8	50·7	-1·1	46·3	-1·9	46·5	-1·7	44·7	-2·2	47·9	-1·3
13	Dec. 2-Dec. 30 ..	46·6	-0·8	43·2	-1·4	48·5	-0·1	47·7	-1·0	49·1	—	48·1	-1·2	49·3	0·0	45·0	-1·1	44·9	-0·4	45·4	+0·2	46·5	-0·8
	Quarters.																						
1	Jan. 1-Apr. 1 ..	44·6	+0·4	42·8	+0·1	44·9	+0·2	46·2	-0·1	47·2	—	46·3	-0·3	45·6	-0·1	45·1	+0·2	44·5	-0·1	44·4	0·0	45·7	-0·2
2	Apr. 1-July 1 ..	50·5	+2·0	48·7	0·0	49·0	+0·5	52·9	0·0	53·1	—	51·3	-0·6	50·5	-0·5	52·1	+0·8	53·1	+0·3	51·3	+0·2	54·1	+1·0
3	July 1-Sept. 30 ..	57·3	+1·8	56·2	+0·6	57·6	+1·6	61·8	+1·1	59·5	—	62·4	+2·7	60·7	+2·0	59·4	+1·0	60·3	+1·2	57·2	+0·3	60·1	+0·1
4	Sept. 30-Dec. 30..	48·6	-1·2	45·5	-2·0	51·0	-0·3	52·8	-0·1	51·2	—	51·5	-1·6	52·6	-0·3	48·3	-1·4	48·5	-1·0	47·2	-1·3	49·7	-0·8
	Year	50·3	+0·8	48·3	-0·3	50·6	+0·5	53·4	+0·2	52·8	—	52·9	+0·1	52·4	+0·3	51·2	+0·2	51·6	+1·1	50·0	-0·2	52·4	0·0
Year 1911	Highest observed	64		64		62		64		64		65		66		64		69		64		70	
	Lowest observed	42		40		42		44		42		45		39		42		40		38		42	

CORRECTIONS AND ADDITIONS FOR DECEMBER, 1911.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.

All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average, 25 Years.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rain-fall in the Week.	Difference from the Average for the Week, 25 Years.	BRIGHT SUNSHINE. Number of Hours Recorded.	Difference from the Average for the Week, 25 Years.	Percentage of possible duration.	Difference from the Average for the week, 25 Years.
Station Values, Additions.		°		°		°	°	°	°	Day-deg.	Day-deg.		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 48, p. 386 ..	9. Ireland, N. ..	—	—	—	—	—	—	—	—	—	—	—	0·54	−0·33	—	—	—	—
No. 50, p. 402 ..	11. English Channel.	—	—	—	—	—	—	—	—	—	—	—	—	—	13	0	23	0
No. 51, p. 410 ..	9. Ireland, N. ..	58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Station Values, Additions.																		
No. 49, p. 395 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	20·3	+8·1	36	+14
No. 50, p. 403 ..	Cromer	52	16th	32	10th	47·2	36·1	41·9	+ 3·4	15	26	—	—	—	—	—	—	—
No. 51, p. 411 ..	Cromer	53	17th	33	23rd	48·2	39·6	44·1	+ 6·5	25	7	—	—	—	—	—	—	—
No. 51, p. 411 ..	Marlborough ..	51	17, 19	30	23rd	45·8	41·0	43·5	+ 5·3	15	3	7	2·72	+2·06	4·6	−3·4	9	−6
No. 52, p. 419 ..	Cromer	52	24th	33	25th	47·0	37·4	42·4	+ 5·0	22	13	—	—	—	—	—	—	—
Station Values, Corrections.																		
No. 48, p 387 ..	Tottenham ..	—	—	—	—	—	—	—	—	—	—	2	0·29	—	—	—	—	—
No. 48, p. 387 ..	Cheadle .. ⚓	—	—	—	—	—	33·9	39·3	− 0·9	—	31	—	—	—	—	—	—	—
No. 48, p. 387 ..	Malin Head ..	—	—	—	—	—	—	—	—	—	—	—	0·22	−0·53	—	—	—	—
No. 49, p. 395 ..	Strathpeffer ..	—	—	—	—	43·8	30·1	37·0	− 1·7	5	43	—	—	—	—	—	—	—
No. 49, p. 395 ..	Scarborough ..	—	—	—	—	—	35·0	39·2	− 2·3	—	27	—	—	—	—	—	—	—
No. 50, p. 403 .	Buxton	—	—	—	—	—	35·2	39·9	+ 3·0	—	27	—	—	—	—	—	—	—
No. 50, p. 403 ..	Hereford .. ⚓	—	—	—	—	48·2	—	43·3	+ 3·6	25	—	—	—	—	—	—	—	—
No. 50, p. 403 ..	Wisley	—	—	—	—	—	—	—	—	—	—	—	—	—	14·7	—	27	—
No. 50, p. 403 ..	Llandudno ..	—	—	—	—	—	40·8	45·1	+ 1·8	—	3	—	—	—	—	—	—	—
No. 50, p. 403 ..	Jersey, St. Heliers	—	—	—	—	—	—	—	—	—	—	—	—	—	12·3	−2·2	22	−4
No. 51, p. 411 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	2·2	−3·4	4	−7
No. 51, p. 411 ..	Cheadle .. ⚓	—	—	—	—	—	38·2	43·1	+ 5·7	—	11	—	—	—	—	—	—	—
No. 51, p. 411 ..	Shrewsbury ..	—	—	—	—	49·7	—	46·0	+ 5·6	28	—	—	—	—	—	—	—	—
No. 51, p. 411 ..	Shaftesbury ⚓	—	—	—	—	—	39·7	44·5	+ 5·5	27	6	—	—	—	—	—	—	—
No. 51, p. 411 ..	Markree Castle..	58	—	—	—	47·8	—	42·3	+ 2·1	26	16	—	—	—	—	—	—	—
No. 51, p. 411 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	6·9	—	—	—
No. 52, p. 419 ..	Strathpeffer ..	—	—	—	—	—	—	—	—	—	—	—	—	—	1·0	−5·9	2	−13
No. 52, p. 419 ..	Buxton .. .	—	—	—	—	44·7	—	40·9	+ 5·0	8	21	—	—	—	—	—	—	—
No. 52, p. 419 ..	Raunds .. ⚓	—	—	—	—	—	36·6	42·6	+ 4·9	27	15	—	—	—	—	—	—	—
No. 52, p. 419 ..	Newton Rigg ..	—	—	—	—	—	36·0	41·2	+ 4·3	—	25	—	—	—	—	—	—	—
No. 52, p. 419 ..	Stonyhurst ..	—	—	—	—	—	—	—	—	—	—	—	—	—	2·1	−4·1	—	—

		Grass Minima. No. of Days.	Grass Minima. Lowest Reading.	Mean Earth Temperature. At 1 foot.	Mean Earth Temperature. At 4 feet.
Station Values, Additions.					
No. 52, p.420 ..	Bath	—	—	44·0	46·4
Station Values, Corrections.					
No. 52, p. 420 ..	Crathes	—	—	35·6	40·0
No. 52, p. 420 ..	Marchmont ⚓	—	—	36·7	—

		Temperature of the Sea. Highest.	Lowest.	Mean.
Station Values, Corrections.				
No. 49, p. 396 ..	Plymouth ..	51	49	49·8
No. 50, p. 404 ..	Plymouth ..	50	48	48·5
No. 51, p. 412 ..	Plymouth ..	48	47	47·0
No. 52, p. 420 ..	Plymouth ..	47	46	47·0

(19902—24). Wt. 113—4. 450. 5/11. D & S.

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Thirty-fourth Year.
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SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-ONE YEARS, 1881–1911.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881-1885 ..	65	*14·2*	*96*	49	*8·3*	*115*	45	5·1	102	44	*4·9*	*102*	45	6·4	112	43	6·4	105	45	6·2	107	58	*13·2*	*109*	51	8·8	110	53	9·7	104	61	9·4	102	57	11·9	118	56	10·6	109	57	8·2	104	51	8·4	108
1886-1890 ..	66	*14·5*	*98*	52	6·6	92	47	5·1	102	47	*4·5*	*94*	43	5·2	91	44	5·4	89	47	5·4	93	53	10·8	89	50	6·9	86	49	8·3	89	56	8·4	91	50	9·5	94	52	8·8	91	57	7·1	90	49	7·1	91
1891-1895 ..	64	13·9	94	48	6·8	94	49	5·1	102	48	*4·4*	*92*	45	4·9	86	43	5·3	87	47	5·3	91	53	10·5	87	47	6·7	84	47	8·1	87	55	7·8	85	49	8·5	84	50	8·3	86	52	7·1	90	49	6·8	87
1896-1900 ..	67	14·6	99	53	6·7	93	49	5·4	108	49	*5·4*	*113*	46	6·1	107	44	6·5	107	48	6·0	103	58	*11·5*	*95*	53	8·3	104	54	10·4	112	61	8·7	95	53	9·9	98	56	9·8	101	58	8·3	105	52	7·9	101
1901-1905 ..	69	*16·5*	*111*	55	7·6	106	47	4·6	92	48	*4·6*	*96*	48	6·2	109	48	6·6	108	49	5·9	102	61	*13·7*	*113*	56	8·4	105	54	10·0	108	67	10·3	112	60	11·4	113	60	10·8	111	61	8·7	110	51	8·4	108
1906-1910 ..	69	15·1	102	52	7·4	103	47	4·9	98	49	*5·0*	*104*	46	5·3	93	48	6·1	100	48	5·7	98	56	12·7	105	55	8·9	111	54	9·2	99	66	10·5	114	63	9·6	95	59	10·2	105	56	7·7	97	54	8·0	103
30 years average ..	**67**	**14·8**	—	**52**	**7·2**	—	**47**	**5·0**	—	**47**	**4·8**	—	**46**	**5·7**	—	**45**	**6·1**	—	**47**	**5·8**	—	**56**	**12·1**	—	**52**	**8·0**	—	**52**	**9·3**	—	**61**	**9·2**	—	**55**	**10·1**	—	**55**	**9·7**	—	**57**	**7·9**	—	**51**	**7·8**	—
1911	58	14·4	97	51	5·8	81	45	4·0	80	54	5·4	113	42	4·1	72	45	5·6	92	47	5·0	87	49	10·1	83	44	6·3	79	48	7·5	81	48	6·2	67	54	7·0	69	49	7·4	76	55	6·5	82	48	6·2	80

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0.		1.		2.		3.		4.		5.		Districts 1-5.		6.		7.		8.		9.		10.		Districts 6-10.		11.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
Lustra.* 1881-1885 ..	*38·2*	*− 0·1*	*38·0*	*+ 0·1*	39·4	+ 0·3	39·8	+ 0·8	39·9	+ 0·8	41·4	+ 1·0	39·7	+ 0·6	*39·9*	*+ 0·1*	40·5	+ 0·5	42·7	+ 1·2	41·3	+ 0·3	43·1	+ 0·5	41·5	+ 0·5	44·9	+ 0·4	40·6	+ 0·5
1886-1890 ..	*38·2*	*− 0·1*	37·8	− 0·1	38·3	− 0·8	37·4	− 1·6	37·8	− 1·3	38·8	− 1·6	38·0	− 1·1	39·2	− 0·6	38·9	− 1·1	40·2	− 1·3	40·5	− 0·5	41·8	− 0·8	40·1	− 0·9	43·2	− 1·3	39·1	− 1·0
1891-1895 ..	37·4	− 0·9	36·8	− 1·1	37·9	− 1·2	37·6	− 1·4	37·8	− 1·3	39·0	− 1·4	37·8	− 1·3	38·7	− 1·1	39·1	− 0·9	40·4	− 1·1	40·1	− 0·9	41·7	− 0·9	40·0	− 1·0	43·5	− 1·0	38·9	− 1·2
1896-1900 ..	38·7	+ 0·4	38·4	+ 0·5	39·9	+ 0·8	40·1	+ 1·1	40·1	+ 1·0	41·8	+ 1·4	40·1	+ 1·0	40·5	+ 0·7	41·1	+ 1·1	42·7	+ 1·2	41·5	+ 0·5	43·3	+ 0·7	41·8	+ 0·8	45·9	+ 1·4	41·0	+ 0·9
1901-1905 ..	38·8	+ 0·5	38·3	+ 0·4	39·9	+ 0·8	40·1	+ 1·1	39·9	+ 0·8	41·2	+ 0·8	39·9	+ 0·8	40·4	+ 0·6	40·6	+ 0·6	42·2	+ 0·7	41·2	+ 0·2	42·9	+ 0·3	41·4	+ 0·4	45·1	+ 0·6	40·7	+ 0·6
1906-1910 ..	38·3	0·0	37·8	− 0·1	39·0	− 0·1	39·2	+ 0·2	39·0	− 0·1	40·0	− 0·4	39·0	− 0·1	39·9	+ 0·1	39·8	− 0·2	40·9	− 0·6	41·3	+ 0·3	42·7	+ 0·1	40·9	− 0·1	44·4	− 0·1	40·0	− 0·1
30 years average ..	**38·3**	—	**37·9**	—	**39·1**	—	**39·0**	—	**39·1**	—	**40·4**	—	**39·1**	—	**39·8**	—	**40·0**	—	**41·5**	—	**41·0**	—	**42·6**	—	**41·0**	—	**44·5**	—	**40·1**	—
1911	39·8	+ 1·5	38·9	+ 1·0	40·0	+ 0·9	39·9	+ 0·9	39·8	+ 0·7	40·5	+ 0·1	39·8	+ 0·7	40·8	+ 1·0	41·6	+ 1·6	41·2	− 0·3	41·7	+ 0·7	42·6	0·0	41·6	+ 0·6	44·0	− 0·5	40·7	+ 0·6

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0.		1.		2.		3.		4.		5.		Districts 1-5.		6.		7.		8.		9.		10.		Districts 6-10.		11.		Districts 1-10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
Lustra.* 1881-1885 ..	·17	*94*	*·24*	*104*	*·22*	*92*	·25	96	·22	96	·25	100	·24	100	·19	90	·19	86	*·24*	*92*	·22	100	·25	100	·22	96	·32	103	·23	96
1886-1890 ..	*·16*	*89*	·21	91	*·23*	*96*	·23	88	·20	87	·20	80	·21	88	·20	95	·21	95	*·24*	*92*	·20	91	·25	100	·22	96	·30	97	·22	92
1891-1895 ..	*·21*	*117*	*·26*	*113*	*·29*	*121*	·29	112	·27	117	·30	120	·28	117	·24	114	*·24*	*109*	*·30*	*115*	·24	109	·27	108	·26	113	·36	116	·27	113
1896-1900 ..	·18	100	*·22*	*96*	*·23*	*96*	·25	96	·22	96	·24	96	·23	96	·20	95	·22	100	*·24*	*92*	·22	100	·25	100	·23	100	·28	90	·23	96
1901-1905 ..	·16	89	·19	83	·22	92	·25	96	·19	83	·24	96	·22	92	·19	90	·21	95	*·23*	*88*	·20	91	·22	88	·21	91	·27	87	·22	92
1906-1910 ..	·19	106	·25	109	·28	117	·28	108	·26	113	·30	120	·27	113	·22	105	·26	118	·29	112	·22	100	·24	96	·25	109	·33	106	·26	108
30 years average ..	**·18**	—	**·23**	—	**·24**	—	**·26**	—	**·23**	—	**·25**	—	**·24**	—	**·21**	—	**·22**	—	**·26**	—	**·22**	—	**·25**	—	**·23**	—	**·31**	—	**·24**	—
1911	·20	111	·23	100	·21	88	·23	88	·20	87	·24	96	·22	92	·22	105	·23	105	·24	92	·24	109	·26	104	·24	104	·27	87	·23	96

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
April, 1911.

W. N. SHAW,
Director.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1911.

Thirty-fourth Year. VOL. XXVIII. [*New Series.*] } APPENDIX I. SECOND QUARTER, 1911. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-ONE YEARS, 1881–1911.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885 ..	51	*8·5*	*100*	44	*6·4*	*102*	43	5·8	107	39	5·9	107	41	6·5	108	38	5·6	104	41	6·0	105
1886-1890 ..	54	7·7	*97*	43	6·0	94	40	4·8	89	41	5·1	93	41	6·4	107	40	5·7	106	41	5·6	98
1891-1895 ..	48	7·1	84	42	5·5	87	40	5·2	96	36	4·8	87	35	5·1	86	32	3·8	70	37	4·9	86
1896-1900 ..	54	8·9	105	48	6·9	110	42	5·4	100	40	5·4	98	40	5·8	97	37	5·0	93	42	5·7	100
1901-1905 ..	54	9·1	107	48	5·9	94	40	5·0	93	39	5·7	104	40	5·7	95	39	6·1	113	41	5·7	100
1906-1910 ..	59	9·7	114	52	7·2	114	47	6·1	113	43	6·2	113	46	6·7	112	43	6·4	119	46	6·5	114
30 years average ..	**53**	**8·5**	—	**46**	**6·3**	—	**42**	**5·4**	—	**40**	**5·5**	—	**41**	**6·0**	—	**38**	**5·4**	—	**41**	**5·7**	—
1911	48	9·6	113	45	6·5	103	37	6·2	115	33	4·9	89	31	4·2	70	30	4·4	81	35	5·2	91

YEARS.	Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885 ..	47	*8·4*	*98*	42	7·0	103	44	7·2	104	52	7·2	95	46	7·7	100	46	7·5	100	45	5·6	100	44	6·8	103
1886-1890 ..	45	8·8	102	41	6·5	96	42	6·5	94	46	7·1	93	46	7·5	97	44	7·3	97	46	5·9	105	43	6·5	98
1891-1895 ..	42	6·7	78	40	6·0	88	35	5·3	77	47	6·6	87	41	7·1	92	41	6·3	84	36	4·7	84	39	5·6	85
1896-1900 ..	50	*9·4*	*109*	45	7·3	107	41	7·3	106	55	9·1	120	47	8·5	110	48	8·3	111	42	5·6	100	45	7·0	106
1901-1905 ..	46	*8·6*	*100*	44	5·9	87	41	7·3	106	53	7·1	93	46	7·2	94	46	7·2	96	45	6·2	111	44	6·4	97
1906-1910 ..	51	9·7	113	50	7·9	116	48	8·0	116	58	8·7	114	56	8·3	108	53	8·6	115	41	5·6	100	50	7·5	114
30 years average ..	**47**	**8·6**	—	**44**	**6·8**	—	**42**	**6·9**	—	**52**	**7·6**	—	**47**	**7·7**	—	**46**	**7·5**	—	**43**	**5·6**	—	**44**	**6·6**	—
1911	42	8·8	102	38	7·2	106	35	6·4	93	40	6·2	82	44	7·0	91	40	7·1	95	34	5·3	95	38	6·2	94

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		DISTRICTS 1-5.		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		DISTRICTS 6-10.		11. ENGLISH CHANNEL.		DISTRICTS 1-10 COMBINED.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.* 1881-1885 ..	*47·6*	*0·0*	*48·3*	*− 0·1*	49·6	0·0	51·4	+ 0·1	51·2	+ 0·1	52·5	+ 0·1	50·6	0·0	*49·5*	*− 0·4*	50·4	− 0·3	51·1	− 0·5	50·2	− 0·1	51·1	− 0·6	50·5	− 0·3	52·4	− 0·7	50·6	− 0·1
1886-1890 ..	47·7	*+ 0·1*	48·6	+ 0·2	49·1	− 0·5	51·0	− 0·3	50·9	− 0·2	52·2	− 0·2	50·4	− 0·2	49·7	− 0·2	50·4	− 0·3	51·4	− 0·2	50·3	0·0	51·6	− 0·1	50·7	− 0·1	52·5	− 0·6	50·5	− 0·2
1891-1895 ..	48·2	+ 0·6	48·9	+ 0·3	49·7	+ 0·1	51·5	+ 0·2	51·8	+ 0·7	53·2	+ 0·8	51·0	+ 0·4	50·5	+ 0·6	51·5	+ 0·8	52·5	+ 0·9	51·3	+ 1·0	52·6	+ 0·9	51·7	+ 0·9	54·0	+ 0·9	51·4	+ 0·7
1896-1900 ..	48·0	+ 0·2	48·9	+ 0·5	49·9	+ 0·3	51·5	+ 0·2	51·4	+ 0·3	52·9	+ 0·5	50·9	+ 0·3	50·4	+ 0·5	51·4	+ 0·7	52·4	+ 0·8	50·9	+ 0·6	52·5	+ 0·8	51·5	+ 0·7	53·6	+ 0·5	51·2	+ 0·5
1901-1905 ..	47·4	− 0·2	48·0	− 0·4	49·6	0·0	51·1	− 0·2	50·5	− 0·6	51·8	− 0·6	50·2	− 0·4	49·6	− 0·3	50·5	− 0·2	51·5	− 0·1	49·9	− 0·4	51·5	− 0·2	50·6	− 0·2	53·1	0·0	50·4	− 0·3
1906-1910 ..	46·9	− 0·7	47·6	− 0·8	49·8	+ 0·2	51·3	0·0	50·8	− 0·3	51·7	− 0·7	50·4	− 0·2	49·4	− 0·5	50·1	− 0·6	50·9	− 0·7	49·4	− 0·9	51·1	− 0·6	50·2	− 0·6	52·8	− 0·3	50·3	− 0·4
30 years average ..	**47·6**	—	**48·4**	—	**49·6**	—	**51·3**	—	**51·1**	—	**52·4**	—	**50·6**	—	**49·9**	—	**50·7**	—	**51·6**	—	**50·3**	—	**51·7**	—	**50·8**	—	**53·1**	—	**50·7**	—
1911	48·7	+ 1·1	49·8	+ 1·4	51·5	+ 1·9	52·9	+ 1·6	52·7	+ 1·6	52·9	+ 0·5	52·0	+ 1·4	51·1	+ 1·2	52·0	+ 1·3	52·6	+ 1·0	50·9	+ 0·6	52·8	+ 1·1	51·9	+ 1·1	53·6	+ 0·5	52·0	+ 1·3

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		DISTRICTS 1-5.		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		DISTRICTS 6-10.		11. ENGLISH CHANNEL.		DISTRICTS 1-10 COMBINED.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
LUSTRA.* 1881-1885 ..	*·45*	*98*	*·50*	*98*	*·56*	*106*	·60	103	·52	100	·56	95	·55	100	·54	100	·54	98	*·57*	*98*	·50	100	·56	104	·54	100	·70	103	·54	98
1886-1890 ..	*·41*	*89*	·51	100	*·49*	*92*	·53	91	·48	92	·53	90	·51	93	·53	98	·50	91	*·55*	*95*	·49	98	·54	100	·52	96	·64	91	·52	95
1891-1895 ..	*·51*	*111*	*·55*	*108*	*·57*	*108*	·59	102	·56	108	·64	108	·58	105	·56	104	*·55*	*100*	*·63*	*109*	·52	104	·56	104	·56	104	·75	110	·57	104
1896-1900 ..	*·47*	*102*	*·50*	*98*	*·51*	*96*	·57	98	·53	102	·59	100	·54	98	·53	98	·57	104	*·60*	*103*	·49	98	·54	100	·55	102	·69	101	·54	98
1901-1905 ..	·48	104	·51	100	*·56*	*106*	·59	102	·52	100	·59	100	·55	100	·55	102	·59	107	*·56*	*97*	·52	104	·54	100	·55	102	·66	97	·55	100
1906-1910 ..	·45	98	·49	96	·50	94	·59	102	·51	98	·61	103	·54	98	·52	96	·53	96	·57	98	·47	94	·51	94	·52	96	·65	96	·53	95
30 years average ..	**·46**	—	**·51**	—	**·53**	—	**·58**	—	**·52**	—	**·59**	—	**·55**	—	**·54**	—	**·55**	—	**·58**	—	**·50**	—	**·54**	—	**·54**	—	**·68**	—	**·55**	—
1911	·48	104	·55	108	·55	104	·62	107	·53	102	·64	108	·58	105	·59	109	·59	107	·63	109	·56	112	·56	104	·59	109	·70	103	·58	105

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

W. N. SHAW,
Director.

Meteorological Office, South Kensington, London, S.W.
July, 1911.

(20755—24.) Wt. 113—4. 450. 7/11. D & S.

(21562—24.) Wt. 113—4. 450. 10/11. D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1911.

Thirty-fourth Year. VOL. XXVIII. [*New Series.*] } APPENDIX I. THIRD QUARTER, 1911. [*Price 4d.*]

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-ONE YEARS, 1881–1911.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.			Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885 ..	56	*10·2*	*86*	51	*9·3*	*111*	46	7·3	107	45	*7·0*	*109*	45	7·5	109	41	6·6	100	46	7·5	107	53	*12·3*	*103*	49	9·8	104	52	10·0	110	60	10·3	102	53	10·2	105	53	10·5	104	54	7·6	107	50	9·0	105
1886-1890 ..	60	*11·5*	*97*	51	7·6	90	46	7·6	112	45	*6·9*	*108*	43	6·8	99	40	6·9	105	45	7·2	103	51	10·9	91	47	9·3	99	46	9·1	100	58	10·3	102	50	9·1	94	50	9·7	96	46	7·1	100	48	8·5	99
1891-1895 ..	65	14·2	119	53	9·3	111	47	7·3	107	45	*7·2*	*113*	45	7·0	101	45	8·1	103	47	7·8	111	52	12·3	103	50	10·7	114	49	10·4	114	60	10·4	103	51	10·4	107	52	10·8	107	48	8·9	124	50	9·3	108
1896-1900 ..	58	12·8	108	50	8·1	96	39	6·2	91	35	*5·4*	*84*	36	6·2	90	33	5·6	85	39	6·3	90	55	*12·2*	*102*	46	9·4	100	42	8·1	89	56	10·0	99	48	10·1	104	49	10·0	96	42	6·3	88	44	8·2	95
1901-1905 ..	63	12·0	101	53	8·0	95	42	6·6	97	36	*6·3*	*98*	40	7·5	109	39	7·0	106	42	7·1	101	51	*13·0*	*108*	49	8·4	90	46	9·1	100	61	10·8	107	52	10·2	105	49	9·1	90	38	5·0	70	45	7·7	96
1906-1910 ..	59	10·5	88	49	8·0	95	43	5·8	85	40	5·3	83	41	6·3	91	37	5·6	85	42	6·2	89	49	11·4	95	48	8·9	95	43	8·0	88	54	9·0	89	52	8·2	85	49	9·1	90	38	5·0	70	45	7·7	96
30 years average ..	**60**	**11·9**	—	**51**	**8·4**	—	**44**	**6·8**	—	**41**	**6·4**	—	**42**	**6·9**	—	**40**	**6·6**	—	**44**	**7·0**	—	**52**	**12·0**	—	**48**	**9·4**	—	**46**	**9·1**	—	**58**	**10·1**	—	**51**	**9·7**	—	**51**	**10·1**	—	**46**	**7·1**	—	**48**	**8·6**	—
1911	57	11·6	97	40	4·2	50	32	4·7	69	26	3·1	48	25	3·6	52	22	2·7	41	29	3·7	53	49	8·0	67	57	7·7	82	27	5·3	58	46	7·2	71	42	8·5	88	40	7·3	72	25	4·8	68	35	5·5	64

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.* 1881-1885 ..	*53·7*	*0·0*	*54·8*	*- 0·1*	56·9	- 0·2	58·5	- 0·4	57·7	- 0·3	59·5	- 0·3	57·5	- 0·2	*55·5*	*- 0·2*	56·8	- 0·5	57·7	- 0·7	55·8	- 0·3	56·8	- 0·8	56·5	- 0·5	59·5	- 1·2	57·0	- 0·4
1886-1890 ..	*52·9*	*- 0·8*	54·5	- 0·4	56·3	- 0·8	58·2	- 0·7	57·4	- 0·6	59·2	- 0·6	57·1	- 0·6	55·0	- 0·7	56·6	- 0·7	57·8	- 0·6	55·7	- 0·4	57·2	- 0·4	56·5	- 0·5	59·8	- 0·9	56·8	- 0·6
1891-1895 ..	53·8	+ 0·1	55·1	+ 0·2	56·9	- 0·2	58·6	- 0·3	57·8	- 0·2	59·8	0·0	57·6	- 0·1	55·7	0·0	57·6	+ 0·3	58·2	- 0·2	56·2	+ 0·1	57·4	- 0·2	57·0	0·0	60·8	+ 0·1	57·3	- 0·1
1896-1900 ..	54·5	+ 0·8	55·7	+ 0·8	57·9	+ 0·8	60·0	+ 1·1	59·1	+ 1·1	61·4	+ 1·6	58·8	+ 1·1	56·5	+ 0·8	58·5	+ 1·2	59·9	+ 1·5	57·0	+ 0·9	58·8	+ 1·2	58·1	+ 1·1	62·4	+ 1·7	58·5	+ 1·1
1901-1905 ..	*53·8*	*+ 0·1*	54·9	0·0	57·5	+ 0·4	59·5	+ 0·6	58·0	0·0	59·9	+ 0·1	58·0	+ 0·3	55·8	+ 0·1	57·5	+ 0·2	58·8	+ 0·4	55·9	- 0·2	57·8	+ 0·2	57·2	+ 0·2	60·9	+ 0·2	57·6	+ 0·2
1906-1910 ..	53·4	- 0·3	54·3	- 0·6	57·1	0·0	58·7	- 0·2	57·7	- 0·3	59·1	- 0·7	57·4	- 0·3	55·8	+ 0·1	56·9	- 0·4	58·1	- 0·3	56·0	- 0·1	57·6	0·0	56·9	- 0·1	60·5	- 0·2	57·2	- 0·2
30 years average ..	**53·7**	—	**54·9**	—	**57·1**	—	**58·9**	—	**58·0**	—	**59·8**	—	**57·7**	—	**55·7**	—	**57·3**	—	**58·4**	—	**56·1**	—	**57·6**	—	**57·0**	—	**60·7**	—	**57·4**	—
1911	55·1	+ 1·4	56·5	+ 1·6	60·2	+ 3·1	63·3	+ 4·4	61·9	+ 3·9	63·7	+ 3·9	61·1	+ 3·4	57·7	+ 2·0	60·3	+ 3·0	62·3	+ 3·9	57·9	+ 1·8	59·9	+ 2·3	59·6	+ 2·6	64·4	+ 3·7	60·4	+ 3·0

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th. hrs.	Per cent. of av.	Th. hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
LUSTRA.* 1881-1885 ..	*·32*	*94*	*·41*	*98*	*·47*	*98*	·50	93	*·46*	*96*	*·53*	*95*	*·47*	*94*	*·44*	*98*	*·44*	*94*	*·51*	*96*	*·36*	*95*	*·43*	*98*	*·44*	*98*	*·65*	*100*	*·46*	*96*
1886-1890 ..	*·30*	*88*	*·41*	*98*	*·45*	*94*	·51	94	*·46*	*96*	*·51*	*91*	*·47*	*94*	*·43*	*96*	*·43*	*92*	*·49*	*92*	*·36*	*95*	*·44*	*100*	*·43*	*96*	*·64*	*98*	*·45*	*94*
1891-1895 ..	*·31*	*91*	*·41*	*98*	*·47*	*98*	·51	94	*·47*	*98*	*·54*	*96*	*·48*	*96*	*·41*	*98*	*·42*	*90*	*·49*	*92*	*·37*	*97*	*·41*	*93*	*·43*	*96*	*·64*	*98*	*·46*	*96*
1896-1900 ..	*·39*	*115*	*·47*	*112*	*·51*	*106*	·60	111	*·53*	*110*	*·65*	*116*	*·55*	*110*	*·45*	*100*	*·51*	*109*	*·59*	*111*	*·41*	*108*	*·48*	*109*	*·49*	*109*	*·72*	*111*	*·52*	*108*
1901-1905 ..	*·37*	*109*	*·42*	*100*	*·51*	*106*	*·58*	*107*	*·49*	*102*	*·58*	*104*	*·52*	*104*	*·37*	*104*	*·51*	*109*	*·53*	*100*	*·39*	*103*	*·44*	*100*	*·47*	*104*	*·63*	*97*	*·50*	*104*
1906-1910 ..	*·37*	*109*	*·42*	*100*	*·47*	*98*	*·54*	*100*	*·48*	*100*	*·57*	*102*	*·50*	*100*	*·46*	*102*	*·49*	*104*	*·54*	*102*	*·41*	*108*	*·46*	*105*	*·47*	*104*	*·63*	*97*	*·48*	*100*
30 years average ..	**·34**	—	**·42**	—	**·48**	—	**·54**	—	**·48**	—	**·56**	—	**·50**	—	**·45**	—	**·47**	—	**·53**	—	**·38**	—	**·44**	—	**·45**	—	**·65**	—	**·48**	—
1911	·43	126	·53	126	·65	135	·76	141	·68	142	·85	152	·69	138	·57	127	·66	140	·73	138	·53	139	·60	136	·62	138	·83	128	·66	138

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
October, 1911.

W. N. SHAW,
Director.

427

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FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1911.

Thirty-fourth Year.
VOL. XXVIII. [*New Series.*] } APPENDIX I. FOURTH QUARTER, 1911. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-ONE YEARS, 1881–1911.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881-1885 ..	68	*16·2*	*96*	54	*9·3*	*191*	55	7·3	97	59	*8·3*	*120*	55	8·6	109	52	8·9	98	55	8·5	105
1886-1890 ..	71	*16·6*	*99*	57	8·9	97	53	7·3	97	51	*6·1*	*88*	50	7·2	91	52	8·8	97	53	7·7	96
1891-1895 ..	67	17·4	104	53	8·8	96	54	7·2	96	55	*7·7*	*112*	53	8·3	105	54	10·5	115	54	8·5	105
1896-1900 ..	69	19·2	114	57	10·2	111	53	8·1	108	49	*5·9*	*86*	49	7·5	98	47	8·2	90	51	8·0	99
1901-1905 ..	69	*15·8*	*94*	57	8·4	91	48	7·4	99	47	*5·7*	*83*	47	6·6	84	47	7·8	86	49	7·2	89
1906-1910 ..	70	15·3	91	57	9·8	107	54	7·6	101	54	7·9	114	56	9·1	115	54	10·5	115	55	9·0	111
30 years average ..	**69**	**16·8**	—	**56**	**9·2**	—	**53**	**7·5**	—	**53**	**6·9**	—	**51**	**7·9**	—	**51**	**9·1**	—	**53**	**8·1**	—
1911	64	15·7	93	64	13·0	141	66	8·7	116	62	9·7	141	64	10·1	128	62	15·4	169	63	11·4	141

YEARS.	Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881-1885 ..	58	*14·5*	*96*	56	11·0	99	62	13·7	101	64	11·8	104	61	11·8	95	60	12·6	99	67	12·4	103	58	10·6	102
1886-1890 ..	58	15·3	101	59	10·7	90	62	13·6	101	64	12·1	106	59	12·6	102	60	12·8	101	69	11·9	99	57	10·3	99
1891-1895 ..	59	15·9	105	58	11·7	105	59	14·6	108	64	11·3	99	58	13·2	106	60	13·3	105	64	12·3	103	57	10·9	105
1896-1900 ..	61	*15·4*	*102*	54	11·1	100	57	13·5	100	63	11·8	103	58	14·4	116	59	13·2	104	61	11·3	94	55	10·6	102
1901-1905 ..	60	*14·7*	*97*	53	10·3	93	53	11·0	82	66	11·0	96	57	10·3	83	58	11·5	91	64	10·6	88	54	9·4	90
1906-1910 ..	60	14·6	97	61	11·7	105	64	14·3	106	66	10·6	93	69	11·8	95	64	12·6	99	65	13·2	110	60	10·8	104
30 years average ..	**59**	**15·1**	—	**57**	**11·1**	—	**60**	**13·5**	—	**65**	**11·4**	—	**60**	**12·4**	—	**60**	**12·7**	—	**65**	**12·0**	—	**57**	**10·4**	—
1911	61	17·4	115	63	13·2	119	69	17·5	130	61	13·9	122	72	17·1	138	65	15·8	124	72	17·4	145	64	13·6	131

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
Lustra.* 1881-1885 ..	*41·6*	*− 0·8*	*41·2*	*− 0·6*	43·4	− 0·2	43·4	− 0·6	43·0	− 0·2	45·1	− 0·5	43·2	− 0·4	*43·2*	*− 0·7*	44·1	− 0·5	46·5	+ 0·3	43·9	− 0·7	45·6	− 0·5	44·7	− 0·4	49·1	− 0·7	44·0	− 0·4
1886-1890 ..	*42·3*	*− 0·1*	41·6	− 0·2	42·6	− 1·0	42·3	− 1·7	42·1	− 1·1	44·1	− 1·5	42·6	− 1·0	43·4	− 0·5	43·6	− 1·0	45·2	− 1·0	44·2	− 0·4	45·5	− 0·6	44·4	− 0·7	48·7	− 1·1	43·5	− 0·9
1891-1895 ..	41·9	− 0·5	41·0	− 0·8	43·0	− 0·6	43·7	− 0·3	42·9	− 0·3	45·6	0·0	43·2	− 0·4	43·5	− 0·4	44·4	− 0·2	46·2	0·0	43·8	− 0·8	45·5	− 0·6	44·7	− 0·4	49·8	0·0	44·0	− 0·4
1896-1900 ..	43·2	+ 0·8	42·7	+ 0·9	44·8	+ 1·2	44·9	+ 0·9	44·1	+ 0·9	46·9	+ 1·3	44·7	+ 1·1	44·9	+ 1·0	45·8	+ 1·2	47·2	+ 1·0	45·4	+ 0·8	47·1	+ 1·0	46·1	+ 1·0	51·0	+ 1·2	45·4	+ 1·0
1901-1905 ..	*42·4*	*0·0*	41·7	− 0·1	43·4	− 0·2	43·7	− 0·3	42·7	− 0·5	45·0	− 0·6	43·3	− 0·3	43·8	− 0·1	44·2	− 0·4	45·5	− 0·7	44·7	+ 0·1	46·0	− 0·1	44·8	− 0·3	49·5	− 0·3	44·1	− 0·3
1906-1910 ..	43·1	+ 0·7	42·7	+ 0·9	44·5	+ 0·9	45·7	+ 1·7	44·5	+ 1·3	46·6	+ 1·0	44·8	+ 1·2	44·3	+ 0·4	45·2	+ 0·6	46·8	+ 0·6	45·5	+ 0·9	46·6	+ 0·5	45·7	+ 0·6	50·5	+ 0·7	45·3	+ 0·9
30 years average ..	**42·4**	—	**41·8**	—	**43·6**	—	**44·0**	—	**43·2**	—	**45·6**	—	**43·6**	—	**43·9**	—	**44·6**	—	**46·2**	—	**44·6**	—	**46·1**	—	**45·1**	—	**49·8**	—	**44·4**	—
1911	42·3	− 0·1	41·6	− 0·2	44·3	+ 0·7	45·6	+ 1·6	44·4	+ 1·2	46·7	+ 1·1	44·5	+ 0·9	43·8	− 0·1	45·3	+ 0·7	47·0	+ 0·8	45·0	+ 0·4	46·0	− 0·1	45·4	+ 0·3	50·2	+ 0·4	45·0	+ 0·6

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
Lustra.* 1881-1885 ..	*·14*	*100*	*·18*	*106*	*·18*	*95*	·19	90	·18	100	·19	90	·18	95	·16	100	·15	88	*·19*	*90*	·18	95	·21	100	·18	95	·23	86	·18	95
1886-1890 ..	*·12*	*86*	*·15*	*88*	*·19*	*100*	·21	100	·18	100	·20	95	·19	100	·15	94	·15	88	*·20*	*95*	·17	89	·20	95	·17	90	·27	104	·18	95
1891-1895 ..	*·13*	*92*	*·18*	*106*	*·20*	*105*	·20	95	·19	106	·22	105	·20	105	·18	113	*·16*	*94*	*·22*	*105*	·21	111	·23	110	·20	105	·27	104	·20	105
1896-1900 ..	*·14*	*100*	*·16*	*94*	*·18*	*95*	·23	110	·19	106	·24	114	·20	105	·16	100	·18	106	*·22*	*105*	·19	100	·23	110	·20	105	·26	100	·20	105
1901-1905 ..	·14	100	·17	100	*·19*	*100*	·21	100	·17	94	·20	95	·19	100	·16	100	·18	106	*·20*	*95*	·18	95	·20	95	·18	95	·24	92	·19	100
1906-1910 ..	·14	100	·19	112	·20	105	·21	100	·18	100	·23	110	·20	105	·16	100	·20	118	·22	105	·19	100	·20	95	·19	100	·26	100	·20	105
30 years average ..	**·14**	—	**·17**	—	**·19**	—	**·21**	—	**·18**	—	**·21**	—	**·19**	—	**·16**	—	**·17**	—	**·21**	—	**·19**	—	**·21**	—	**·19**	—	**·26**	—	**·19**	—
1911	·14	100	·17	100	·19	100	·20	95	·19	106	·21	100	·19	100	·17	106	·20	118	·23	110	·19	100	·21	100	·20	105	·23	88	·20	105

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
January, 1912.

W. N. SHAW,
Director.

(28139—24.) Wt. 113—4 450. 3/12. D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1911.

Thirty-fourth Year.
Vol. XXVIII. [*New Series.*] } APPENDIX I.

VALUES FOR THE WHOLE YEAR, 1911.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-ONE YEARS, 1881–1911.

TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881-1885 ..	241	*49·2*	*95*	198	*33·3*	*107*	188	25·5	103	187	*26·0*	*110*	186	29·0	109	177	27·4	101	187	28·2	106
1885-1890 ..	251	*50·3*	*97*	203	29·0	93	187	24·9	101	184	*22·6*	*96*	176	25·6	97	177	26·8	99	185	25·8	97
1891-1895 ..	244	52·7	101	196	30·4	98	190	24·8	100	184	*24·0*	*102*	178	25·2	95	174	27·6	101	184	26·4	99
1896-1900 ..	248	55·8	107	209	31·9	103	183	25·0	101	173	*22·0*	*93*	172	25·7	97	161	25·3	93	180	26·0	98
1901-1905 ..	255	53·4	103	213	29·9	96	177	23·5	95	170	*22·4*	*95*	175	26·0	98	174	27·5	101	182	25·9	98
1906-1910 ..	257	50·6	97	210	32·3	104	192	24·4	99	186	*24·3*	*103*	189	27·5	104	182	28·6	105	192	27·4	103
30 years average ..	**249**	**52·0**	**—**	**205**	**31·1**	**—**	**186**	**24·7**	**—**	**181**	**23·6**	**—**	**180**	**26·5**	**—**	**174**	**27·2**	**—**	**185**	**26·6**	**—**
1911	227	51·3	99	200	29·4	95	180	23·6	96	175	23·1	98	162	22·0	83	159	28·1	103	175	25·2	95

YEARS.	Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra.* 1881-1885 ..	216	*50·6*	*105*	198	36·6	104	211	40·7	105	236	38·6	101	217	41·7	104	216	41·6	104	222	33·8	104	202	34·9	104
1885-1890 ..	207	45·8	95	197	33·3	94	200	37·4	96	223	37·9	99	204	38·7	97	206	38·6	96	217	32·0	99	196	32·2	96
1891-1895 ..	206	45·5	94	196	35·1	91	191	38·4	99	225	36·2	94	200	39·1	98	204	38·9	97	200	33·0	102	194	32·7	98
1896-1900 ..	225	*49·0*	*101*	198	36·1	102	194	39·2	101	235	39·6	103	206	43·0	108	212	41·3	103	204	31·5	97	196	33·7	101
1901-1905 ..	218	*50·3*	*104*	202	33·0	94	194	37·4	96	247	39·2	102	215	39·0	98	215	39·7	99	219	32·9	102	199	32·8	98
1906-1910 ..	217	48·4	100	213	37·5	106	208	39·6	102	244	38·9	102	240	37·9	95	224	40·5	101	201	31·5	97	208	34·0	102
30 years average ..	**214**	**48·3**	**—**	**201**	**35·3**	**—**	**200**	**38·8**	**—**	**235**	**38·4**	**—**	**213**	**39·9**	**—**	**213**	**40·1**	**—**	**211**	**32·4**	**—**	**199**	**33·4**	**—**
1911	201	44·3	92	182	34·3	97	179	36·8	95	195	33·5	87	212	39·5	99	194	37·7	94	186	33·8	104	185	31·5	94

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
Lustra.* 1881-1885 ..	*45·3*	*− 0·2*	*45·6*	*− 0·1*	47·3	− 0·1	48·3	0·0	48·0	+ 0·1	49·6	+ 0·1	47·8	0·0	*47·1*	*− 0·2*	48·0	− 0·2	49·5	+ 0·1	47·8	− 0·2	49·2	− 0·3	48·3	− 0·2	51·4	− 0·5	48·1	− 0·1
1885-1890 ..	*45·2*	*− 0·3*	45·6	− 0·1	46·6	− 0·8	47·2	− 1·1	47·1	− 0·8	48·6	− 0·9	47·0	− 0·8	46·9	− 0·4	47·4	− 0·8	48·7	− 0·7	47·7	− 0·3	49·1	− 0·4	48·0	− 0·5	51·0	− 0·9	47·5	− 0·7
1891-1895 ..	45·3	− 0·2	45·4	− 0·3	46·9	− 0·5	47·9	− 0·4	47·7	− 0·2	49·4	− 0·1	47·5	− 0·3	47·1	− 0·2	48·2	0·0	49·3	− 0·1	47·9	− 0·1	49·3	− 0·2	48·4	− 0·1	52·0	+ 0·1	48·0	− 0·2
1896-1900 ..	46·1	+ 0·6	46·4	+ 0·7	48·1	+ 0·7	49·1	+ 0·8	48·8	+ 0·9	50·8	+ 1·3	48·6	+ 0·8	48·1	+ 0·8	49·2	+ 1·0	50·6	+ 1·2	48·7	+ 0·7	50·4	+ 0·9	49·4	+ 0·9	53·3	+ 1·4	49·0	+ 0·8
1901-1905 ..	*45·6*	*+ 0·1*	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	47·9	0·0	49·5	0·0	47·9	+ 0·1	47·3	0·0	48·2	0·0	49·5	+ 1·1	48·0	0·0	49·6	+ 0·1	48·5	0·0	51·9	0·0	48·2	0·0
1906-1910 ..	45·5	0·0	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	48·0	+ 0·1	49·3	− 0·2	47·9	+ 0·1	47·4	− 0·1	48·0	− 0·2	49·1	− 0·3	48·1	+ 0·1	49·6	+ 0·1	48·4	− 0·1	52·0	+ 0·1	48·2	0·0
30 years average ..	**45·5**	**—**	**45·7**	**—**	**47·4**	**—**	**48·3**	**—**	**47·9**	**—**	**49·5**	**—**	**47·8**	**—**	**47·3**	**—**	**48·2**	**—**	**49·4**	**—**	**48·0**	**—**	**49·5**	**—**	**48·5**	**—**	**51·9**	**—**	**48·2**	**—**
1911	46·5	+ 1·0	46·7	+ 1·0	49·0	+ 1·6	50·4	+ 2·1	49·7	+ 1·8	51·0	+ 1·5	48·9	+ 1·1	48·4	+ 1·1	49·8	+ 1·6	50·8	+ 1·4	48·9	+ 0·9	50·3	+ 0·8	49·6	+ 1·1	53·1	+ 1·2	49·3	+ 1·1

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
Lustra.* 1881-1885 ..	*1·08*	97	*1·33*	*100*	*1·41*	*98*	1·54	97	1·39	99	*1·54*	*95*	1·44	97	1·33	98	1·32	94	*1·51*	*96*	1·26	98	1·45	101	1·37	97	1·89	100	1·41	97
1885-1890 ..	*0·99*	*89*	*1·28*	*96*	*1·35*	*94*	1·48	94	1·32	94	1·45	90	1·38	93	1·32	97	1·29	91	*1·48*	*94*	1·20	94	1·43	99	1·34	95	1·84	97	1·36	94
1891-1895 ..	*1·15*	*104*	*1·40*	*105*	*1·52*	*106*	1·59	101	1·49	106	1·70	105	1·54	104	1·42	104	*1·38*	*98*	*1·64*	*104*	1·33	104	1·47	102	1·45	103	2·02	107	1·50	103
1896-1900 ..	*1·17*	*105*	*1·35*	*102*	*1·44*	*100*	1·64	104	1·46	104	1·71	106	1·52	103	1·34	99	1·48	105	*1·65*	*105*	1·31	102	1·49	103	1·45	103	1·94	103	1·49	103
1901-1905 ..	1·15	104	1·28	96	*1·49*	*103*	1·63	103	1·37	97	*1·60*	*99*	1·47	99	1·38	101	1·49	106	*1·52*	*97*	1·29	101	1·40	97	1·42	101	1·80	95	1·45	100
1906-1910 ..	1·14	103	1·34	101	1·45	101	1·61	102	1·43	101	1·70	105	1·51	102	1·36	100	1·47	104	1·62	103	1·29	101	1·42	99	1·43	101	1·87	99	1·47	101
30 years average ..	**1·11**	**—**	**1·33**	**—**	**1·44**	**—**	**1·58**	**—**	**1·41**	**—**	**1·62**	**—**	**1·48**	**—**	**1·36**	**—**	**1·41**	**—**	**1·57**	**—**	**1·28**	**—**	**1·44**	**—**	**1·41**	**—**	**1·89**	**—**	**1·45**	**—**
1911	1·26	114	1·48	111	1·60	111	1·80	114	1·59	113	1·93	119	1·68	114	1·54	113	1·68	119	1·84	117	1·52	117	1·63	113	1·64	116	2·03	107	1·66	114

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London. S.W.
February, 1912.

W. N. SHAW,
Director.

FOR OFFICIAL USE

ALBERTA AVERAGES BEFORE 1911.

AVERAGES FOR THE WHOLE YEARS 1911.

STATE I.—RAINFALL—TOTAL OF RAIN-DAYS, VARIOUS OF RAINFALL AND PRECIPITATION ON AND VARIOUS 30 YEARS' 1881-1910.

SUMMARY OF RAINFALL, RAIN-DAYS AND SHOWING NEARLY DAYS AND SHOWING DURING THE ENTIRE ONE-TENTH YEARS' 1881-1911.

| Area | | Average Rainfall | | |

WEEKLY WEATHER REPORT, 1911.

Thirty-fourth Year. VOL. XXVIII. [*New Series.*] } APPENDIX II.] { RAIN-DAYS, RAINFALL, ACCUMULATED TEMPERATURE AND SUNSHINE. [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAIN-DAYS IN EACH DISTRICT DURING THE YEAR 1911.

1911.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Weeks. Limiting Dates of each Week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
	NUMBERS OF RAIN-DAYS—1911.																														
	1911.																														
1	Jan. 1-7 -	4	4	5	5	6	6	6	6	5	5	6	6	6	6	3	3	3	3	4	4	4	4	5	5	4	4	7	7	5	5
2	8-14 -	6	10	4	9	4	10	5	11	4	9	4	10	4	10	5	8	5	8	4	8	4	8	4	9	4	8	4	11	4	9
3	15-21 -	5	15	1	10	1	11	2	13	1	10	2	12	1	11	3	11	2	10	2	10	2	10	3	12	2	10	1	12	1	10
4	22-28 -	6	21	5	15	2	13	2	15	1	11	2	14	2	13	5	16	2	12	4	14	4	14	3	15	4	14	4	16	3	13
5	Jan. 29-Feb. 4	1	22	0	15	1	14	2	17	1	12	1	15	1	14	1	17	0	12	0	14	1	15	1	16	1	15	0	16	1	14
6	Feb. 5-11 -	3	25	2	17	1	15	4	21	1	13	2	17	2	16	3	20	1	13	1	15	2	17	2	18	2	17	1	17	2	16
7	12-18 -	7	32	6	23	4	19	4	25	3	16	3	20	4	20	7	27	5	18	5	20	7	24	6	24	6	23	5	22	5	21
8	19-25 -	7	39	6	29	5	24	6	31	6	22	5	25	6	26	7	34	7	25	7	27	7	31	7	31	7	30	5	27	7	28
9	Feb. 26-Mar. 4	7	46	5	34	4	28	5	36	5	27	4	29	5	31	6	40	7	32	6	33	6	37	6	37	6	36	6	33	5	33
10	Mar. 5-11 -	6	52	5	39	4	32	5	41	4	31	4	33	4	35	5	45	5	37	5	38	6	43	6	43	5	41	5	38	4	37
11	12-18 -	4	56	6	45	7	39	6	47	5	36	5	38	6	41	2	47	4	41	4	42	3	46	4	47	3	44	7	45	5	42
12	19-25 -	1	57	2	47	3	42	4	51	3	39	4	42	3	44	0	47	2	43	3	45	0	46	2	49	2	46	5	50	3	45
13	Mar. 26-Apr. 1	1	58	4	51	3	45	3	54	3	42	3	45	3	47	2	49	1	44	3	48	2	48	5	54	3	49	5	55	3	48
14	April 2-8 -	3	61	4	55	5	50	4	58	2	44	4	49	4	51	1	50	2	46	2	50	1	49	2	56	2	51	5	60	3	51
15	9-15 -	4	65	3	58	2	52	1	59	1	45	1	50	2	53	1	51	1	47	0	50	1	50	1	57	1	52	1	61	1	52
16	16-22 -	6	71	6	64	3	55	1	60	3	48	1	51	3	56	7	58	5	52	5	55	7	57	6	63	6	58	4	65	5	57
17	23-29 -	6	77	6	70	5	60	5	65	5	53	5	56	5	61	7	65	6	58	5	60	6	63	6	69	6	64	5	70	5	62
18	April 30-May 6	6	83	4	74	3	63	2	67	3	56	3	59	3	64	5	70	4	62	4	64	5	68	6	75	5	69	3	73	4	66
19	May 7-13 -	2	85	3	77	2	65	2	69	1	57	2	61	2	66	3	73	2	64	2	66	3	71	4	79	3	72	2	75	3	69
20	14-20 -	2	87	2	79	1	66	2	71	1	58	1	62	1	67	1	74	1	65	1	67	1	72	2	81	1	73	1	76	1	70
21	21-27 -	3	90	2	81	1	67	1	72	1	59	1	63	1	68	2	76	1	66	1	68	2	74	2	83	1	74	0	76	1	71
22	May 28-June 3	1	91	1	82	2	69	2	74	1	60	1	64	1	69	1	77	1	67	1	69	1	75	1	84	1	75	0	76	1	72
23	June 4-10 -	1	92	1	83	1	70	1	75	1	61	0	64	1	70	1	78	0	67	1	70	0	75	1	85	1	76	1	77	1	73
24	11-17 -	3	95	3	86	4	74	3	78	2	63	2	66	3	73	2	80	3	70	3	73	2	77	3	88	2	78	3	80	2	75
25	18-24 -	5	100	5	91	5	79	5	83	5	68	5	71	5	78	6	86	6	76	6	79	6	83	6	94	6	84	5	85	6	81
26	June 25-July 1	6	106	5	96	3	82	4	87	5	73	4	75	4	82	5	91	6	82	4	83	5	88	4	98	5	89	4	89	5	86
27	July 2-8 -	5	111	4	100	1	83	1	88	1	74	1	76	2	84	4	95	2	84	0	83	3	91	1	99	2	91	0	89	2	88
28	9-15 -	1	112	1	101	1	84	0	88	0	74	0	76	0	84	1	96	1	85	0	83	1	92	0	99	1	92	0	89	1	89
29	16-22 -	6	118	4	105	3	87	1	89	1	75	0	76	2	86	6	102	4	89	1	84	4	96	3	102	4	96	0	89	3	92
30	23-29 -	6	124	4	109	2	89	4	93	1	76	3	79	3	89	6	108	3	92	1	85	6	102	5	107	4	100	4	93	4	96
31	July 30-Aug. 5	5	129	3	112	4	93	3	96	4	80	2	81	3	92	6	114	5	97	5	90	6	108	7	114	6	106	4	97	5	101
32	Aug. 6-12 -	3	132	2	114	2	95	1	97	1	81	1	82	2	94	2	116	1	98	1	91	3	111	4	118	2	108	1	98	1	102
33	13-19 -	2	134	3	117	1	96	1	98	1	82	0	82	1	95	1	117	1	99	1	92	1	112	2	120	1	109	1	99	1	103
34	20-26 -	4	138	4	121	5	101	4	102	4	86	4	86	4	99	4	121	5	104	4	96	4	116	4	124	4	113	3	102	4	107
35	Aug. 27-Sept. 2	6	144	4	125	2	103	1	103	2	88	2	88	2	101	5	126	2	106	2	98	4	120	3	127	3	116	1	103	3	110
36	Sept. 3-9 -	4	148	2	127	1	104	1	104	1	89	1	89	1	102	1	127	2	108	1	99	1	121	1	128	1	117	1	104	1	111
37	10-16 -	3	151	2	129	3	107	3	107	2	91	1	90	2	104	2	129	3	111	2	101	3	124	2	130	2	119	1	105	2	113
38	17-23 -	6	157	3	132	3	110	3	110	3	94	3	93	3	107	5	134	3	114	5	106	5	129	5	135	5	124	5	110	4	117
39	24-30 -	6	163	4	136	4	114	3	113	4	98	4	97	4	111	6	140	5	119	4	110	5	134	5	140	5	129	4	114	4	121
40	Oct. 1-7 -	4	167	4	140	5	119	4	117	4	102	4	101	4	115	2	142	3	122	4	114	3	137	3	143	3	132	6	120	3	124
41	8-14 -	1	168	1	141	2	121	3	120	1	103	2	103	2	117	0	142	0	122	1	115	1	138	2	145	1	133	2	122	2	126
42	15-21 -	3	171	4	145	4	125	3	123	5	108	4	107	4	121	4	146	4	126	4	119	4	142	5	150	4	137	3	125	4	130
43	22-28 -	5	176	5	150	5	130	5	128	4	112	5	112	5	126	4	150	5	131	6	125	5	147	7	157	5	142	7	132	5	135
44	Oct. 29-Nov. 4	7	183	6	156	6	136	5	133	7	119	6	118	6	132	7	157	7	138	7	132	6	153	7	164	7	149	6	138	6	141
45	Nov. 5-11 -	5	188	5	161	5	141	5	138	6	125	6	124	5	137	5	162	5	143	7	139	5	158	7	171	6	155	7	145	6	147
46	12-18 -	6	194	7	168	6	147	6	144	6	131	5	129	6	143	6	168	7	150	7	146	7	165	7	178	7	162	7	152	6	153
47	19-25 -	3	197	5	173	5	152	3	147	2	133	2	131	3	146	1	169	2	152	2	148	1	166	2	180	2	164	4	156	3	156
48	Nov. 26-Dec. 2	5	202	5	178	5	157	4	151	5	138	4	135	5	151	5	174	5	157	5	153	4	170	5	185	5	169	3	159	5	161
49	Dec. 3-9 -	6	208	5	183	5	162	7	158	6	144	7	142	6	157	7	181	6	163	6	159	6	176	7	192	6	175	7	166	6	167
50	10-16 -	5	213	6	189	6	168	5	163	6	150	6	148	6	163	6	187	6	169	7	166	6	182	7	199	6	181	7	173	6	173
51	17-23 -	7	220	5	194	6	174	7	170	7	157	7	155	6	169	7	194	7	176	7	173	6	188	7	206	7	188	7	180	6	179
52	Dec. 24-30 -	7	227	6	200	6	180	5	175	5	162	4	159	5	174	7	201	6	182	6	179	7	195	6	212	6	194	6	186	6	185

(23141—24.) Wt. 113—4. 450. 3/12. D & S.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF **RAINFALL** IN EACH DISTRICT DURING THE YEAR 1911.

1911.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks. No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
		RAINFALL IN INCHES—1911.																													
	1911.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	Jan. 1-7 -	0·82	0·82	0·34	0·34	0·64	0·64	0·83	0·83	0·41	0·41	0·58	0·58	0·56	0·56	0·86	0·86	0·44	0·44	0·71	0·71	0·66	0·66	0·57	0·57	0·65	0·65	0·78	0·78	0·61	0·61
2	8-14 -	1·41	2·23	0·67	1·01	0·61	1·25	0·75	1·58	0·44	0·85	0·74	1·32	0·64	1·20	1·08	1·94	0·62	1·06	0·68	1·39	0·46	1·12	0·59	1·16	0·69	1·34	0·82	1·60	0·66	1·27
3	15-21 -	0·57	2·80	0·03	1·04	0·01	1·26	0·03	1·61	0·01	0·86	0·03	1·35	0·02	1·22	0·11	2·05	0·04	1·10	0·05	1·44	0·24	1·36	0·44	1·60	0·17	1·51	0·03	1·63	0·09	1·36
4	22-28 -	1·53	4·33	0·33	1·37	0·16	1·42	0·04	1·65	0·04	0·90	0·09	1·44	0·13	1·35	0·82	2·87	0·15	1·25	0·21	1·65	0·46	1·82	0·12	1·72	0·35	1·86	0·13	1·76	0·24	1·60
5	Jan. 29-Feb. 4	0·01	4·34	0·00	1·37	0·01	1·43	0·06	1·71	0·01	0·91	0·02	1·46	0·02	1·37	0·01	2·88	0·00	1·25	0·00	1·65	0·01	1·83	0·01	1·73	0·01	1·87	0·00	1·76	0·01	1·61
6	Feb. 5-11 -	0·21	4·55	0·06	1·43	0·04	1·47	0·26	1·97	0·07	0·98	0·13	1·59	0·11	1·48	0·19	3·07	0·09	1·34	0·08	1·73	0·16	1·99	0·18	1·91	0·14	2·01	0·03	1·79	0·13	1·74
7	12-18 -	3·12	7·67	1·00	2·43	0·29	1·76	0·33	2·30	0·35	1·33	0·28	1·87	0·45	1·93	2·96	6·03	1·29	2·63	0·72	2·45	1·01	3·00	0·96	2·87	1·39	3·40	0·42	2·21	0·92	2·66
8	19-25 -	3·13	10·80	1·35	3·78	0·46	2·22	0·40	2·70	0·63	1·96	0·56	2·43	0·68	2·61	2·10	8·13	1·41	4·07	1·11	3·56	1·36	4·36	1·11	3·98	1·42	4·82	0·56	2·77	1·05	3·71
9	Feb. 26-Mar. 4	1·61	12·41	0·55	4·33	0·29	2·51	0·56	3·26	0·61	2·57	0·69	3·12	0·54	3·15	1·26	9·39	1·22	5·29	1·41	4·97	1·04	5·40	0·93	4·94	1·18	6·00	0·70	3·47	0·83	4·57
10	Mar. 5-11 -	1·53	13·94	0·37	4·70	0·29	2·80	0·35	3·61	0·39	2·96	0·44	3·56	0·37	3·52	0·56	9·95	0·43	5·72	1·00	5·97	0·51	5·91	1·00	5·94	0·70	6·70	0·93	4·40	0·53	5·10
11	12-18 -	0·40	14·34	0·81	5·54	0·96	3·76	1·10	4·71	0·62	3·58	0·88	4·44	0·88	4·40	0·06	10·01	0·38	6·10	1·10	7·07	0·13	6·04	0·45	6·39	0·42	7·12	1·36	5·76	0·65	5·75
12	19-25 -	0·03	14·37	0·09	5·63	0·12	3·88	0·45	5·16	0·31	3·89	0·48	4·92	0·29	4·69	0·00	10·01	0·04	6·14	0·25	7·32	0·00	6·04	0·11	6·50	0·08	7·20	0·20	5·96	0·19	5·94
13	26-Apr. 1	0·05	14·42	0·15	5·78	0·11	3·99	0·24	5·40	0·23	4·12	0·65	5·57	0·28	4·97	0·11	10·12	0·13	6·27	0·21	7·53	0·19	6·23	0·52	7·02	0·23	7·43	0·49	6·45	0·26	6·20
14	April 2-8 -	0·04	14·46	0·17	5·95	0·31	4·30	0·32	5·72	0·11	4·23	0·27	5·84	0·24	5·21	0·01	10·13	0·05	6·32	0·15	7·68	0·01	6·24	0·11	7·13	0·07	7·50	0·46	6·91	0·16	6·36
15	9-15 -	0·68	15·14	0·20	6·15	0·04	4·34	0·05	5·77	0·01	4·24	0·05	5·89	0·07	5·28	0·18	10·31	0·02	6·34	0·00	7·68	0·10	6·34	0·01	7·14	0·06	7·56	0·05	6·96	0·06	6·42
16	16-22 -	2·09	17·23	0·74	6·89	0·10	4·44	0·03	5·80	0·17	4·41	0·03	5·92	0·21	5·49	1·53	11·84	0·93	7·27	0·80	8·48	1·07	7·41	1·16	8·30	1·10	8·66	0·18	7·14	0·65	7·07
17	23-29 -	1·06	18·29	0·77	7·66	0·59	5·03	0·59	6·39	0·65	5·06	0·89	6·81	0·70	6·19	1·79	13·63	1·27	8·54	1·45	9·93	1·20	8·61	1·19	9·49	1·38	10·04	1·08	8·22	1·04	8·11
18	April 30-May 6	1·26	19·55	0·58	8·24	0·21	5·24	0·29	6·68	0·41	5·47	0·45	7·26	0·39	6·58	1·54	15·17	0·93	9·47	0·85	10·78	1·07	9·68	1·32	10·81	1·14	11·18	0·48	8·70	0·77	8·88
19	May 7-13 -	0·69	20·24	0·52	8·76	0·28	5·52	0·33	7·01	0·14	5·61	0·24	7·50	0·30	6·88	0·80	15·97	0·42	9·89	0·38	11·16	0·38	10·06	0·58	11·39	0·51	11·69	0·05	8·75	0·41	9·29
20	14-20 -	0·30	20·54	0·61	9·37	0·38	5·90	0·51	7·52	0·19	5·80	0·14	7·64	0·37	7·25	0·12	16·09	0·18	10·07	0·05	11·21	0·09	10·15	0·15	11·54	0·12	11·81	0·09	8·84	0·25	9·54
21	21-27 -	0·52	21·06	0·13	9·50	0·15	6·05	0·01	7·53	0·32	6·12	0·29	7·93	0·18	7·43	0·14	16·23	0·17	10·24	0·17	11·38	0·27	10·42	0·20	11·74	0·19	12·00	0·00	8·84	0·19	9·73
22	May 28-June 3	0·07	21·13	0·03	9·53	0·22	6·27	0·29	7·82	0·06	6·18	0·10	8·03	0·14	7·57	0·10	16·33	0·15	10·39	0·08	11·46	0·08	10·50	0·15	11·89	0·11	12·11	0·00	8·84	0·12	9·85
23	June 4-10 -	0·11	21·24	0·05	9·58	0·07	6·32	0·01	7·83	0·04	6·22	0·00	8·03	0·03	7·60	0·01	16·34	0·00	10·39	0·01	11·47	0·00	10·50	0·01	11·90	0·01	12·12	0·58	9·42	0·02	9·87
24	11-17 -	0·21	21·45	0·40	9·98	0·51	6·85	0·44	8·27	0·36	6·58	0·37	8·40	0·41	8·01	0·68	17·02	0·63	11·02	0·59	12·06	0·49	10·99	0·90	12·80	0·66	12·78	0·71	10·13	0·53	10·40
25	18-24 -	1·52	22·97	1·85	11·83	2·96	9·81	1·63	9·90	1·31	7·89	1·20	9·60	1·79	9·80	1·46	18·48	1·78	12·80	1·26	13·32	1·08	12·07	0·91	13·71	1·30	14·08	1·13	11·26	1·54	11·94
26	25-July 1	1·05	24·02	0·45	12·28	0·37	10·18	0·43	10·33	0·42	8·31	0·37	9·97	0·41	10·21	0·45	18·93	0·63	13·43	0·65	13·97	0·38	12·45	0·26	13·97	0·47	14·55	0·44	11·70	0·44	12·38
27	July 2-8 -	0·87	24·89	0·28	12·56	0·16	10·34	0·03	10·36	0·03	8·34	0·01	9·98	0·10	10·31	0·49	19·42	0·05	13·48	0·00	13·97	0·43	12·88	0·01	13·98	0·20	14·75	0·00	11·70	0·15	12·53
28	9-15 -	0·13	25·02	0·09	12·65	0·01	10·35	0·00	10·36	0·00	8·34	0·00	9·98	0·02	10·33	0·01	19·43	0·01	13·49	0·00	13·97	0·01	12·89	0·00	13·98	0·01	14·76	0·00	11·70	0·01	12·54
29	16-22 -	1·22	26·24	0·80	13·45	0·21	10·56	0·01	10·37	0·05	8·39	0·00	9·98	0·21	10·54	0·73	20·16	0·25	13·74	0·02	13·99	0·50	13·39	0·61	14·59	0·42	15·18	0·00	11·70	0·32	12·86
30	23-29 -	1·29	27·53	0·46	13·91	0·24	10·80	0·45	10·82	0·18	8·57	0·40	10·38	0·35	10·89	1·53	21·69	0·32	14·06	0·39	14·38	1·41	14·80	1·95	16·54	1·12	16·30	1·09	12·79	0·73	13·59
31	July 30-Aug. 5	0·55	28·08	0·40	14·31	0·52	11·32	0·13	10·95	0·44	9·01	0·11	10·49	0·32	11·21	0·80	22·49	1·52	15·58	1·19	15·57	1·07	15·87	1·58	18·12	1·23	17·53	0·66	13·45	0·77	14·36
32	Aug. 6-12 -	0·54	28·62	0·16	14·47	0·08	11·40	0·03	10·98	0·09	9·10	0·03	10·52	0·08	11·29	0·16	22·65	0·28	15·86	0·06	15·63	0·37	16·24	0·43	18·55	0·26	17·79	0·27	13·72	0·17	14·53
33	13-19 -	0·23	28·85	0·12	14·59	0·02	11·42	0·09	11·07	0·02	9·12	0·00	10·52	0·05	11·34	0·05	22·70	0·04	15·90	0·01	15·64	0·15	16·39	0·07	18·62	0·06	17·85	0·09	13·81	0·06	14·59
34	20-26 -	1·05	29·90	0·29	14·88	1·12	12·54	0·51	11·58	0·76	9·88	0·64	11·16	0·66	12·00	0·70	23·40	0·61	16·51	0·79	16·43	0·75	17·14	0·48	19·10	0·67	18·52	0·31	14·12	0·67	15·26
35	Aug. 27-Sept. 2	1·85	31·75	0·43	15·31	0·35	12·89	0·07	11·65	0·43	10·31	0·19	11·35	0·29	12·29	1·21	24·61	0·62	17·13	0·60	17·03	0·65	17·79	0·31	19·41	0·68	19·20	0·21	14·33	0·49	15·75
36	Sept. 3-9 -	0·58	32·33	0·24	15·55	0·06	12·95	0·03	11·68	0·08	10·39	0·01	11·36	0·09	12·38	0·03	24·64	0·11	17·24	0·04	17·07	0·01	17·80	0·06	19·47	0·05	19·25	0·02	14·35	0·07	15·82
37	10-16 -	0·27	32·60	0·08	15·63	0·68	13·63	0·35	12·03	0·44	10·83	0·36	11·72	0·38	12·76	0·14	24·78	1·24	18·48	0·59	17·66	0·27	18·07	0·62	20·09	0·57	19·82	0·67	15·02	0·47	16·29
38	17-23 -	1·28	33·88	0·29	15·92	0·45	14·08	0·48	12·51	0·58	11·41	0·53	12·25	0·47	13·23	0·89	25·67	0·83	19·31	1·13	18·79	0·81	18·88	0·81	20·90	0·89	20·71	1·07	16·09	0·68	16·97
39	24-30 -	1·70	35·58	0·52	16·44	0·84	14·92	0·90	13·41	0·51	11·92	0·38	12·63	0·63	13·86	1·28	26·95	1·79	21·10	0·52	19·31	0·73	19·61	1·54	22·44	1·17	21·88	0·37	16·46	0·90	17·87
40	Oct. 1-7 -	0·24	35·82	0·36	16·80	0·50	15·42	0·55	13·96	0·31	12·23	0·96	13·59	0·54	14·40	0·14	27·09	0·26	21·36	0·32	19·63	0·16	19·77	0·17	22·61	0·21	22·09	1·33	17·79	0·38	18·25
41	8-14 -	0·03	35·85	0·05	16·85	0·04	15·46	0·39	14·35	0·07	12·30	0·25	13·84	0·16	14·56	0·00	27·09	0·00	21·36	0·16	19·79	0·02	19·79	0·32	22·93	0·10	22·19	1·04	18·83	0·13	18·38
42	15-21 -	0·29	36·14	0·51	17·36	0·31	15·77	0·32	14·67	0·60	12·90	0·80	14·64	0·51	15·07	1·05	28·14	0·48	21·84	1·00	20·79	0·87	20·66	1·36	24·29	0·95	23·14	0·63	19·46	0·73	19·11
43	22-28 -	0·67	36·81	1·25	18·61	1·02	16·79	0·87	15·54	0·91	13·81	1·83	16·47	1·18	16·25	0·52	28·66	1·36	23·20	1·69	22·48	1·00	21·66	1·27	25·56	1·17	24·31	2·01	21·47	1·18	20·29
44	Oct. 29-Nov. 4	3·58	40·39	1·90	20·51	0·59	17·38	0·77	16·31	0·88	14·69	1·12	17·59	1·05	17·30	3·89	32·55	2·27	25·47	1·64	24·12	2·09	23·75	1·81	27·37	2·34	26·65	0·90	22·37	1·69	21·98
45	Nov. 5-11 -	1·71	42·10	1·05	21·56	0·55	17·93	0·77	17·08	1·07	15·76	2·12	19·71	1·11	18·41	1·34	33·89	0·89	26·36	2·02	26·14	1·19	24·94	1·42	28·79	1·37	28·02	2·23	24·60	1·24	23·22
46	12-18 -	2·00	44·10	2·34	23·90	0·95	18·88	1·53	18·61	0·77	16·53	1·63	21·34	1·44	19·85	1·92	35·81	1·27	27·63	1·70	27·84	2·12	27·06	2·54	31·33	1·91	29·93	1·52	26·12	1·67	24·89
47	19-25 -	0·30	44·40	0·73	24·63	0·75	19·63	0·42	19·03	0·23	16·76	0·14	21·48	0·45	20·30	0·02	35·83	0·15	27·78	0·16	28·00	0·12	27·18	0·08	31·41	0·11	30·04	0·57	26·69	0·28	25·17
48	Nov. 26-Dec. 2	1·13	45·53	0·62	25·25	0·60	20·23	0·29	19·32	0·43	17·19	0·34	21·82	0·46	20·76	1·06	36·89	0·54	28·32	0·64	28·64	0·54	27·72	0·78	32·19	0·73	30·77	0·49	27·18	0·60	25·77
49	Dec. 3-9 -	1·36	46·89	0·81	26·06	0·78	21·01	1·00	20·32	1·13	18·32	1·69	23·51	1·08	21·84	2·44	39·33	1·70	30·02	2·39	31·03	1·66	29·38	2·43	34·62	2·12	32·89	1·93	29·11	1·60	27·37
50	10-16 -	1·22	48·11	1·53	27·59	1·46	22·47	0·84	21·16	1·65	19·97	1·61	25·12	1·42	23·26	1·69	41·02	1·50	31·52	2·08	33·11	1·72	31·10	1·86	36·48	1·77	34·66	1·76	30·87	1·59	28·96
51	17-23 -	1·39	49·50	1·02	28·61	0·72	23·19	1·28	22·44	1·50	21·47	2·20	27·32	1·34	24·60	1·74	42·76	1·67	33·19	2·70	35·81	1·23	32·33	1·98	38·46	1·87	36·53	1·96	32·83	1·61	30·57
52	Dec. 24-30 -	1·77	51·27	0·81	29·42	0·43	23·62	0·66	23·10	0·57	22·04	0·73	28·05	0·64	25·24	1·58	44·34	1·06	34·25	1·01	36·82	1·14	33·47	1·07	39·53	1·17	37·70	0·99	33·82	0·90	31·47

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1911.

1911.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
	Day-Degrees above 42° Fahrenheit—1911.																														
	1911.																														
1	Jan. 1-7 -	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	4	4	6	6	9	9	4	4	18	18	2	2
2	8-14 -	1	2	2	2	4	4	4	4	4	4	5	5	4	4	6	9	6	6	6	10	8	14	11	20	7	11	20	38	6	8
3	15-21 -	22	24	13	15	5	9	0	4	0	4	0	5	4	8	18	27	4	10	2	12	13	27	13	33	10	21	10	48	7	15
4	22-28 -	12	36	12	27	23	32	12	16	23	27	10	15	16	24	21	48	21	31	19	31	26	53	31	64	24	45	22	70	20	35
5	Jan. 29 -Feb. 4	4	40	1	28	0	32	0	16	0	27	0	15	0	24	0	48	0	31	0	31	1	54	3	67	1	46	7	77	0	35
6	Feb. 5-11 -	2	42	0	28	0	32	0	16	0	27	0	15	0	24	2	50	0	31	0	31	4	58	7	74	3	49	6	83	2	37
7	12-18 -	25	67	28	56	29	61	28	44	29	56	27	42	28	52	25	75	25	56	26	57	33	91	36	110	29	78	28	111	29	66
8	19-25 -	7	74	11	67	30	91	34	78	32	88	30	72	28	80	22	97	26	82	28	85	30	121	38	148	29	107	35	146	28	94
9	Feb. 26-Mar. 4	15	89	18	85	33	124	34	112	34	122	31	103	30	110	26	123	29	111	28	113	32	153	41	189	31	138	42	188	30	124
10	Mar. 5-11 -	8	97	11	96	13	137	13	125	12	134	13	116	12	122	13	136	12	123	12	125	15	168	19	208	14	152	23	211	13	137
11	12-18 -	0	97	0	96	2	139	5	130	4	138	5	121	3	125	8	144	4	127	7	132	11	179	12	220	8	160	24	235	5	142
12	19-25 -	7	104	0	96	3	142	13	143	11	149	29	150	11	136	12	156	11	138	22	154	13	192	25	245	17	177	38	273	14	156
13	26-Apr. 1	17	121	9	105	4	146	11	154	13	162	24	174	12	148	28	184	28	166	29	183	25	217	34	279	29	206	30	303	21	177
14	April 2-8 -	11	132	8	113	4	150	1	155	5	167	0	174	3	151	15	199	7	173	8	191	11	228	16	295	11	217	10	313	6	183
15	9-15 -	28	160	39	152	37	187	40	195	46	213	38	212	40	191	40	239	35	208	40	231	39	267	45	340	40	257	35	348	40	223
16	16-22 -	27	187	39	191	52	239	61	256	53	266	48	260	51	242	33	272	49	257	41	272	43	310	54	394	44	301	54	402	48	271
17	23-29 -	31	218	40	231	48	287	69	325	56	322	57	317	54	296	33	305	43	300	47	319	42	352	55	449	44	345	58	460	49	320
18	April 30-May 6	31	249	41	272	46	333	53	378	53	375	49	366	48	344	37	342	40	340	45	364	40	392	53	502	43	388	58	518	46	366
19	May 7-13 -	61	310	60	332	73	406	85	463	90	465	95	461	81	425	89	431	89	429	95	459	81	473	96	598	90	478	92	610	86	452
20	14-20 -	48	358	56	388	72	478	75	538	87	552	84	545	75	500	75	506	83	512	84	543	67	540	82	680	78	556	94	704	77	529
21	21-27 -	71	429	91	479	101	579	105	643	102	654	100	645	100	600	85	591	92	604	91	634	74	614	92	772	87	643	93	797	94	623
22	May 28-June 3	116	545	110	589	106	685	132	775	137	791	142	787	125	725	144	735	141	745	143	777	116	730	124	896	134	777	133	930	129	752
23	June 4-10 -	83	628	105	694	112	797	122	897	127	918	134	921	120	845	109	844	113	858	139	916	99	829	125	1021	117	894	136	1065	118	870
24	11-17 -	54	682	56	750	69	866	84	981	83	1001	92	1013	77	922	69	913	81	939	89	1005	76	905	97	1118	82	976	109	1175	80	950
25	18-24 -	83	765	91	841	113	979	123	1104	113	1114	113	1126	111	1033	94	1007	105	1044	104	1109	90	995	99	1217	98	1074	111	1286	104	1054
26	25-July 1	62	827	75	916	97	1076	109	1213	97	1211	106	1232	97	1130	74	1081	87	1131	96	1205	80	1075	97	1314	87	1161	100	1386	92	1146
27	July 2-8 -	83	910	108	1024	132	1208	141	1354	143	1354	146	1378	134	1264	102	1183	117	1248	137	1342	105	1180	121	1435	116	1277	139	1525	125	1271
28	9-15 -	116	1026	127	1151	123	1331	136	1490	144	1498	151	1529	136	1400	144	1327	150	1398	162	1504	132	1312	160	1595	150	1427	158	1683	143	1414
29	16-22 -	89	1115	102	1253	145	1476	169	1659	160	1658	164	1693	148	1548	111	1438	138	1536	153	1657	118	1430	141	1736	132	1559	160	1843	140	1554
30	23-29 -	95	1210	114	1367	159	1635	181	1840	174	1832	189	1882	163	1711	123	1561	155	1691	166	1823	119	1549	139	1875	140	1699	176	2019	152	1706
31	July 30-Aug. 5	132	1342	142	1509	165	1800	179	2019	166	1998	169	2051	164	1875	140	1701	158	1849	153	1976	130	1679	141	2016	144	1843	163	2182	151	1860
32	Aug. 6-12 -	120	1462	134	1643	162	1962	192	2211	178	2176	194	2245	172	2047	139	1840	160	2009	169	2145	130	1809	139	2155	148	1991	179	2361	160	2020
33	13-19 -	107	1569	111	1754	139	2101	170	2381	169	2345	177	2422	153	2200	148	1988	157	2166	176	2321	150	1959	165	2320	159	2150	182	2543	156	2176
34	20-26 -	92	1661	101	1855	130	2231	151	2532	141	2486	155	2577	135	2335	115	2103	134	2300	148	2469	116	2075	132	2452	129	2279	162	2705	132	2308
35	Aug. 27-Sept. 2	95	1756	104	1959	133	2364	154	2686	137	2623	150	2727	136	2471	109	2212	126	2426	137	2606	116	2191	123	2575	122	2401	154	2859	129	2437
36	Sept. 3-9 -	93	1849	99	2058	125	2489	161	2847	149	2772	169	2896	141	2612	100	2312	120	2546	163	2769	108	2299	125	2700	123	2524	192	3051	132	2569
37	10-16 -	71	1920	72	2130	92	2581	125	2972	104	2876	132	3028	105	2717	75	2387	97	2643	114	2883	90	2389	97	2797	95	2619	153	3204	100	2669
38	17-23 -	60	1980	65	2195	79	2660	85	3057	68	2944	83	3111	76	2793	71	2458	76	2719	79	2962	74	2463	77	2874	76	2695	109	3313	76	2745
39	24-30 -	41	2021	50	2245	74	2734	91	3148	76	3020	97	3208	78	2871	55	2513	75	2794	93	3055	61	2524	76	2950	72	2767	113	3426	75	2820
40	Oct. 1-7 -	33	2054	37	2282	45	2779	53	3201	43	3063	43	3251	44	2915	42	2555	46	2840	50	3105	45	2569	50	3000	47	2814	72	3498	46	2866
41	8-14 -	35	2089	44	2326	48	2827	63	3264	53	3116	71	3322	56	2971	47	2602	52	2892	71	3176	51	2620	65	3065	57	2871	96	3594	56	2922
42	15-21 -	43	2132	46	2372	70	2897	86	3350	76	3192	99	3421	75	3046	70	2672	81	2973	98	3274	92	2712	98	3163	88	2959	111	3705	82	3004
43	22-28 -	11	2143	15	2387	30	2927	46	3396	35	3227	51	3472	25	3071	27	2699	30	3003	49	3323	33	2745	38	3201	35	2994	76	3781	30	3034
44	Oct. 29-Nov. 4	29	2172	33	2420	40	2967	45	3441	45	3272	49	3521	42	3113	34	2733	40	3043	46	3369	38	2783	43	3244	40	3034	68	3849	41	3075
45	Nov. 5-11 -	10	2182	10	2430	25	2992	33	3474	27	3299	34	3555	46	3159	12	2745	24	3067	32	3401	15	2798	29	3273	22	3056	53	3902	34	3109
46	12-18 -	10	2192	20	2450	31	3023	42	3516	34	3333	47	3602	35	3194	24	2769	30	3097	43	3444	29	2827	37	3310	33	3089	61	3963	34	3143
47	19-25 -	0	2192	0	2450	6	3029	4	3520	3	3336	4	3606	3	3197	3	2772	4	3101	5	3449	8	2835	8	3318	56	3095	21	3984	5	3148
48	Nov. 26-Dec. 2	12	2204	10	2460	6	3035	7	3527	9	3345	11	3617	9	3206	20	2792	19	3120	23	3472	24	2859	29	3347	23	3118	29	4013	16	3164
49	Dec. 3-9 -	6	2210	2	2462	4	3039	9	3536	9	3354	15	3632	8	3214	6	2798	9	3129	25	3497	8	2867	13	3360	12	3130	31	4044	10	3174
50	10-16 -	20	2230	8	2470	11	3050	24	3560	25	3379	29	3661	8	3222	18	2816	23	3152	30	3527	23	2890	28	3388	24	3154	43	4087	16	3190
51	17-23 -	21	2251	21	2491	22	3072	22	3582	25	3404	35	3696	27	3249	21	2837	24	3176	34	3561	25	2915	27	3415	26	3180	58	4145	26	3216
52	Dec. 24-30 -	6	2257	6	2497	13	3085	24	3606	26	3430	29	3725	20	3269	20	2857	24	3200	29	3590	26	2941	32	3447	26	3206	46	4191	23	3239

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1911.

1911.				Eastern Districts.												Western Districts.															
Weeks.		0. Scotland N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
		Day-Degrees below 42° Fahrenheit—1911.																													
	1911.																														
1	Jan. 1-7 -	36	36	43	43	28	28	33	33	34	34	29	29	33	33	37	37	29	29	31	31	35	35	35	35	33	33	8	8	33	33
2	8-14 -	30	66	34	77	31	59	32	65	32	66	30	59	32	65	29	66	24	53	24	55	29	64	31	66	27	60	7	15	30	63
3	15-21 -	6	72	25	102	37	96	40	105	36	102	35	94	35	100	9	75	25	78	28	83	14	78	25	91	20	80	19	34	27	90
4	22-28 -	13	85	13	115	9	105	23	128	14	116	22	116	16	116	1	76	4	82	8	91	2	80	3	94	4	84	0	34	10	100
5	Jan. 29-Feb. 4	30	115	46	161	41	146	54	182	59	175	51	167	50	166	47	123	49	131	41	132	35	115	34	128	41	125	23	57	46	146
6	Feb. 5-11 -	29	144	43	204	37	183	35	217	39	214	34	201	38	204	28	151	33	164	29	161	29	144	27	155	29	154	17	74	34	180
7	12-18 -	14	158	17	221	14	197	18	235	13	227	17	218	16	220	8	159	8	172	7	168	8	152	7	162	8	162	7	81	12	192
8	19-25 -	35	193	35	256	15	212	11	246	11	238	7	225	16	236	14	173	8	180	5	173	11	163	9	171	9	171	0	81	12	204
9	Feb. 26-Mar. 4	26	219	28	284	9	221	7	253	6	244	2	227	10	246	9	182	4	184	0	173	5	168	0	171	4	175	0	81	7	211
10	Mar. 5-11 -	32	251	35	319	29	250	31	284	31	275	29	256	31	277	28	210	23	207	24	197	26	194	28	199	26	201	11	92	29	240
11	12-18 -	28	279	31	350	31	281	33	317	34	309	30	286	32	309	29	239	25	232	30	227	26	220	27	226	27	228	13	105	30	270
12	19-25 -	36	315	36	386	21	302	22	339	23	332	9	295	22	331	30	269	24	256	11	238	21	241	8	234	19	247	0	105	20	290
13	26-Apr. 1	26	341	27	413	19	321	18	357	23	355	12	307	20	351	18	287	13	269	12	250	15	256	14	248	15	262	5	110	17	307
14	April 2-8 -	33	374	35	448	32	353	33	390	35	390	36	343	34	385	36	323	32	301	32	282	32	288	31	279	33	295	21	131	33	340
15	9-15 -	13	387	11	459	13	366	15	405	19	409	17	360	15	400	13	336	12	313	15	297	14	302	16	295	14	309	4	135	15	355
16	16-22 -	11	398	10	469	0	366	0	405	0	409	1	361	2	402	2	338	0	313	0	297	0	302	0	295	0	309	0	135	1	356
17	23-29 -	6	404	4	473	0	366	0	405	0	409	0	361	1	403	0	338	0	313	0	297	0	302	0	295	0	309	0	135	1	357
18	April 30-May 6	11	415	14	487	5	371	4	409	6	415	0	361	6	409	9	347	1	314	0	297	0	302	0	295	2	311	0	135	4	361
19	May 7-13 -	0	415	0	487	0	371	0	409	0	415	0	361	0	409	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
20	14-20 -	0	415	0	487	0	371	0	409	0	415	0	361	0	409	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
21	21-27 -	0	415	0	487	0	371	0	409	0	415	0	361	0	409	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
22	May 28-June 3	0	415	0	487	0	371	0	409	0	415	0	361	0	409	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
23	June 4-10 -	0	415	0	487	0	371	0	409	0	415	0	361	0	409	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
24	11-17 -	0	415	5	492	0	371	0	409	0	415	0	361	1	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
25	18-24 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
26	25-July 1	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
27	July 2-8 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
28	9-15 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
29	16-22 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
30	23-29 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
31	July 30-Aug. 5	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
32	Aug. 6-12 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
33	13-19 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
34	20-26 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
35	Aug. 27-Sept. 2	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
36	Sept. 3-9 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
37	10-16 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
38	17-23 -	0	415	0	492	0	371	0	409	0	415	0	361	0	410	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
39	24-30 -	0	415	5	497	0	371	0	409	0	415	0	361	1	411	0	347	0	314	0	297	0	302	0	295	0	311	0	135	0	361
40	Oct. 1-7 -	3	418	7	504	0	371	0	409	2	417	1	362	2	413	5	352	0	314	0	297	0	302	0	295	1	312	0	135	1	362
41	8-14 -	7	425	19	523	4	375	0	409	6	423	0	362	6	419	10	362	6	320	0	297	1	303	0	295	3	315	0	135	4	366
42	15-21 -	0	425	0	523	0	375	0	409	0	423	0	362	0	419	0	362	0	320	0	297	0	303	0	295	0	315	0	135	0	366
43	22-28 -	20	445	23	546	1	376	0	409	3	426	0	362	5	424	12	374	0	320	0	297	4	307	3	298	4	319	0	135	5	371
44	Oct. 29-Nov. 4	15	460	20	566	8	384	7	416	13	439	7	369	11	435	7	381	1	321	3	300	5	312	1	299	3	322	0	135	7	378
45	Nov. 5-11 -	27	487	30	596	13	397	9	425	14	453	5	374	14	449	23	404	11	332	6	306	25	337	16	315	16	338	0	135	15	393
46	12-18 -	19	506	13	609	3	400	0	425	4	457	0	374	4	453	5	409	1	333	0	306	0	337	0	315	1	339	0	135	2	395
47	19-25 -	39	545	33	642	22	422	27	452	28	485	25	399	27	480	31	440	23	356	24	330	26	363	29	344	27	366	2	137	27	422
48	Nov. 26-Dec. 2	24	569	28	670	23	445	21	473	29	514	22	421	24	504	12	452	9	365	10	340	13	376	18	362	13	379	0	137	18	440
49	Dec. 3-9 -	28	597	38	708	29	474	31	504	34	548	28	449	32	536	27	479	24	389	13	353	30	406	32	394	25	404	0	137	29	469
50	10-16 -	11	608	26	734	23	497	13	517	15	563	6	455	17	553	8	487	8	397	5	358	12	418	11	405	9	413	0	137	13	482
51	17-23 -	7	615	12	746	7	504	1	518	4	567	0	455	5	558	6	493	1	398	0	358	8	426	3	408	4	417	0	137	5	487
52	Dec. 24-30 -	22	637	30	776	24	528	10	528	12	579	2	457	16	574	12	505	8	406	0	358	10	436	5	413	7	424	0	137	12	499

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1911.

1911.				Eastern Districts.												Western Districts.															
WEEKS.		0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		MEANS FOR EASTERN DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR WESTERN DISTRICTS.		11. ENGLISH CHANNEL.		MEANS FOR DISTRICTS 1-10 COMBINED.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
NUMBERS OF HOURS OF BRIGHT SUNSHINE—1911.																															
	1911.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Jan. 1-7 -	8	8	10	10	7	7	8	8	7	7	10	10	8	8	14	14	14	14	15	15	19	19	13	13	15	15	11	11	12	12
2	8-14 -	4	12	10	20	10	17	14	22	12	19	15	25	12	20	10	24	11	25	17	32	9	28	14	27	12	27	16	27	12	24
3	15-21 -	4	16	19	39	16	33	10	32	10	29	6	31	12	32	5	29	9	34	9	41	11	39	10	37	9	36	10	37	10	34
4	22-28 -	2	18	2	41	7	40	14	46	10	39	14	45	9	41	5	34	5	39	10	51	6	45	13	50	8	44	10	47	9	43
5	Jan. 29-Feb. 4	11	29	15	56	16	56	22	68	16	55	25	70	19	60	12	46	19	58	24	75	16	61	20	70	18	62	29	76	19	62
6	Feb. 5-11 -	12	41	13	69	7	63	8	76	8	63	10	80	9	69	7	53	9	67	9	84	15	76	17	87	12	74	14	90	10	72
7	12-18 -	6	47	15	84	17	80	22	98	17	80	22	102	19	88	7	60	16	83	12	96	11	87	6	93	10	84	15	105	15	87
8	19-25 -	17	64	28	112	26	106	25	123	26	106	29	131	27	115	27	87	22	105	28	124	25	112	27	120	26	110	31	136	27	114
9	Feb. 26-Mar. 4	22	86	31	143	28	134	24	147	23	129	21	152	25	140	23	110	21	126	18	142	20	132	19	139	20	130	22	158	23	137
10	Mar. 5-11 -	29	115	35	178	27	161	20	167	19	148	19	171	24	164	28	138	26	152	26	168	29	161	29	168	28	158	28	186	26	163
11	12-18 -	29	144	24	202	17	178	15	182	19	167	18	189	19	183	29	167	21	173	27	195	33	194	31	199	28	186	32	218	23	186
12	19-25 -	33	177	18	220	18	196	32	214	15	182	34	223	23	206	25	192	28	201	21	216	30	224	25	224	26	212	33	251	24	210
13	26-Apr. 1	24	201	12	232	18	214	12	226	14	196	16	239	15	221	24	216	31	232	28	244	17	241	31	255	26	238	20	271	20	230
14	April 2-8 -	23	224	25	257	30	244	36	262	25	221	29	268	29	250	38	254	33	265	35	279	26	267	35	290	34	272	31	302	31	261
15	9-15 -	21	245	31	288	29	273	38	300	37	258	45	313	36	286	35	289	41	306	55	334	54	321	57	347	49	321	58	360	43	304
16	16-22 -	24	269	26	314	31	304	43	343	32	290	43	356	35	321	19	308	23	329	21	355	22	343	17	364	20	341	46	406	27	331
17	23-29 -	26	295	29	343	27	331	37	380	33	323	39	395	33	354	19	327	20	349	38	393	28	371	30	394	27	368	40	446	30	361
18	April 30-May 6	39	334	36	379	41	372	48	428	40	363	51	446	43	397	38	365	40	389	35	428	26	397	30	424	34	402	42	488	39	400
19	May 7-13 -	53	387	48	427	46	418	64	492	42	405	68	514	54	451	47	412	47	436	60	488	52	449	45	469	50	452	66	554	52	452
20	14-20 -	34	421	34	461	27	445	28	520	19	424	27	541	27	478	56	468	45	481	41	529	46	495	50	519	48	500	43	597	37	489
21	21-27 -	41	462	56	517	49	494	52	572	46	470	48	589	50	528	60	528	55	536	60	589	45	540	47	566	53	553	73	670	52	541
22	May 28-June 3	78	540	81	598	81	575	81	653	76	546	79	668	80	608	79	607	90	626	77	666	88	628	77	643	82	635	78	748	81	622
23	June 4-10 -	44	584	71	669	71	646	78	731	72	618	86	754	75	683	86	693	85	711	86	752	67	695	75	718	80	715	78	826	77	699
24	11-17 -	44	628	51	720	47	693	52	783	47	665	55	809	50	733	48	741	59	770	55	807	51	746	46	764	52	767	65	891	51	750
25	18-24 -	32	660	30	750	33	726	29	812	27	692	34	843	31	764	29	770	26	796	33	840	28	774	30	794	29	796	44	935	30	780
26	25-July 1	23	683	29	779	34	760	30	842	29	721	32	875	31	795	33	803	22	818	34	874	28	802	25	819	28	824	37	972	30	810
27	July 2-8 -	36	719	44	823	55	815	73	915	66	787	83	958	64	859	43	846	63	881	81	955	32	834	56	875	55	879	93	1065	60	870
28	9-15 -	78	797	84	907	85	900	82	997	81	868	87	1045	84	943	90	936	93	974	92	1047	93	927	92	967	92	971	95	1160	88	958
29	16-22 -	26	823	34	941	41	941	61	1058	52	920	78	1123	53	996	31	967	28	1002	62	1109	20	947	33	1000	35	1006	76	1236	44	1002
30	23-29 -	17	840	25	966	60	1001	70	1128	61	981	73	1196	58	1054	27	994	54	1056	58	1167	25	972	34	1034	40	1046	64	1300	49	1051
31	July 30-Aug. 5	39	879	54	1020	56	1057	63	1191	51	1032	61	1257	57	1111	44	1038	46	1102	49	1216	35	1007	38	1072	42	1088	53	1353	50	1101
32	Aug. 6-12 -	42	921	55	1075	58	1115	73	1264	60	1092	79	1336	65	1176	61	1099	69	1171	63	1279	44	1051	44	1116	56	1144	72	1425	60	1161
33	13-19 -	38	959	34	1109	48	1163	66	1330	65	1157	77	1413	58	1234	60	1159	72	1243	66	1345	60	1111	55	1171	63	1207	74	1499	61	1222
34	20-26 -	17	976	20	1129	26	1189	30	1360	27	1184	36	1449	28	1262	34	1193	38	1281	42	1387	39	1150	44	1215	39	1246	48	1547	33	1255
35	Aug. 27-Sept. 2	40	1016	43	1172	49	1238	52	1412	49	1233	57	1506	50	1312	45	1238	50	1331	51	1438	43	1193	50	1265	48	1294	62	1609	49	1304
36	Sept. 3-9 -	25	1041	42	1214	59	1297	56	1468	56	1289	60	1566	55	1367	43	1281	63	1394	67	1505	56	1249	68	1333	59	1353	66	1675	57	1361
37	10-16 -	28	1069	26	1240	34	1331	45	1513	42	1331	53	1619	40	1407	32	1313	35	1429	41	1546	27	1276	29	1362	33	1386	50	1725	37	1398
38	17-23 -	17	1086	28	1268	40	1371	48	1561	34	1365	50	1669	40	1447	21	1334	19	1448	25	1571	28	1304	26	1388	24	1410	35	1760	32	1430
39	24-30 -	30	1116	40	1308	39	1410	43	1604	38	1403	51	1720	43	1490	37	1371	32	1480	33	1604	31	1335	29	1417	32	1442	39	1799	37	1467
40	Oct. 1-7 -	16	1132	20	1328	25	1435	26	1630	25	1428	29	1749	25	1515	29	1400	30	1510	29	1633	17	1352	25	1442	26	1468	23	1822	26	1493
41	8-14 -	14	1146	26	1354	26	1461	28	1658	27	1455	32	1781	28	1543	25	1425	40	1550	35	1668	18	1370	24	1466	28	1496	31	1853	28	1521
42	15-21 -	17	1163	9	1363	7	1468	15	1673	7	1462	17	1798	11	1554	12	1437	15	1565	14	1682	19	1389	14	1480	15	1511	18	1871	13	1534
43	22-28 -	23	1186	19	1382	15	1483	20	1693	17	1479	17	1815	18	1572	16	1453	16	1581	22	1704	21	1410	22	1502	19	1530	16	1887	18	1552
44	Oct. 29-Nov. 4	7	1193	18	1400	20	1503	25	1718	17	1496	24	1839	21	1593	10	1463	10	1591	13	1717	13	1423	14	1516	12	1542	23	1910	17	1569
45	Nov. 5-11 -	18	1211	19	1419	25	1528	24	1742	24	1520	21	1860	23	1616	13	1476	15	1606	22	1739	18	1441	22	1538	18	1560	24	1934	20	1589
46	12-18 -	6	1217	5	1424	9	1537	5	1747	8	1528	8	1868	7	1623	10	1486	7	1613	14	1753	14	1455	15	1553	12	1572	18	1952	9	1598
47	19-25 -	11	1228	9	1433	13	1550	11	1758	12	1540	11	1879	11	1634	18	1504	18	1631	19	1772	21	1476	24	1577	20	1592	11	1963	16	1614
48	Nov. 26-Dec. 2	7	1235	9	1442	6	1556	4	1762	7	1547	9	1888	7	1641	9	1513	13	1644	17	1789	8	1484	6	1583	11	1603	13	1976	9	1623
49	Dec. 3-9 -	11	1246	16	1458	14	1570	14	1776	21	1568	20	1908	17	1658	15	1528	17	1661	24	1813	16	1500	16	1599	18	1621	26	2002	17	1640
50	10-16 -	1	1247	3	1461	11	1581	15	1791	11	1579	14	1922	11	1669	7	1535	7	1668	12	1825	8	1508	11	1610	9	1630	13	2015	10	1650
51	17-23 -	7	1254	10	1471	7	1588	5	1796	6	1585	5	1927	6	1675	2	1537	3	1671	8	1833	12	1520	10	1620	7	1637	11	2026	7	1657
52	Dec. 24-30 -	3	1257	5	1476	8	1596	7	1803	5	1590	6	1933	6	1681	3	1540	4	1675	5	1838	2	1522	5	1625	4	1641	4	2030	5	1662

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION** FOR THE YEAR 1911.

1911.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined	
Weeks.																															
No. of Week.	Limiting Dates of each week.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.	For the Week.	From Jan. 1, 1911.
	PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1911.																														
	1911.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Jan. 1-7 -	18	18	22	22	14	14	16	16	13	13	18	18	15	15	29	29	26	26	27	27	37	37	25	25	29	29	19	19	23	23
2	8-14 -	10	13	21	21	19	17	25	21	22	18	26	23	23	19	20	24	22	24	31	29	18	27	25	25	23	26	27	24	23	23
3	15-21 -	7	11	37	27	30	21	17	20	18	18	11	18	22	20	9	19	16	21	15	24	20	25	19	23	16	23	18	21	18	21
4	22-28 -	4	9	4	20	13	19	23	21	18	18	24	20	16	19	9	16	9	18	16	22	11	21	23	23	14	20	16	20	16	20
5	Jan. 29-Feb. 4	20	12	27	22	27	20	36	24	27	20	41	24	32	22	20	17	32	21	39	26	26	22	32	25	30	22	45	25	32	22
6	Feb. 5-11 -	20	13	21	22	11	19	12	22	13	18	15	23	14	20	12	16	15	20	14	24	24	23	27	25	19	22	21	25	16	21
7	12-18 -	9	13	24	22	26	20	33	24	26	19	33	24	28	22	11	15	23	20	17	23	17	22	9	23	15	21	22	24	22	21
8	19-25 -	24	15	40	25	37	22	36	25	36	22	41	27	39	24	39	19	31	22	39	25	36	24	38	25	37	23	43	27	39	24
9	Feb. 26-Mar. 4	30	17	43	27	38	25	32	26	32	23	28	27	34	26	31	20	29	23	23	25	27	24	26	25	27	24	30	27	32	25
10	Mar. 5-11 -	38	20	46	30	35	26	25	26	24	23	25	26	31	26	36	22	33	24	34	26	38	26	37	26	36	25	36	28	34	26
11	12-18 -	36	22	30	30	21	25	18	25	24	23	22	26	23	26	36	24	25	25	34	27	40	28	39	28	35	26	40	30	28	26
12	19-25 -	39	24	22	29	21	25	38	27	18	23	40	27	27	26	30	25	33	25	26	27	36	29	30	28	31	27	39	31	29	27
13	26-Apr. 1	28	24	14	27	20	24	14	25	16	22	19	27	17	25	28	25	35	26	32	27	19	28	35	29	30	27	22	30	23	26
14	April 2-8 -	25	24	27	27	33	25	40	27	27	23	32	27	32	26	42	26	37	27	39	28	29	28	38	30	37	28	34	30	34	27
15	9-15 -	22	24	33	28	31	26	40	28	39	24	48	29	38	27	37	27	43	29	59	31	56	30	61	32	52	30	63	33	45	28
16	16-22 -	24	24	26	28	31	26	44	29	33	25	44	30	36	28	19	27	24	28	21	30	22	30	17	31	20	29	48	34	28	29
17	23-29 -	25	24	28	28	27	26	37	30	32	25	39	31	33	28	19	26	20	28	38	31	27	30	30	31	27	29	40	35	30	28
18	April 30-May 6	36	25	34	28	39	27	47	31	38	26	50	32	41	29	36	27	38	28	34	31	25	29	29	31	33	29	41	35	37	29
19	May 7-13 -	47	27	43	29	42	28	61	33	39	27	65	35	53	30	43	28	44	30	57	33	48	31	42	32	50	30	64	37	51	30
20	14-20 -	30	27	30	29	24	28	26	33	17	27	25	34	25	30	50	30	41	30	38	33	42	31	46	33	44	31	40	37	34	31
21	21-27 -	35	28	48	31	44	29	46	34	41	28	44	34	44	31	53	31	49	32	55	34	40	32	43	33	49	32	68	39	46	32
22	May 28-June 3	65	30	68	33	71	32	72	36	67	30	71	37	70	34	67	34	79	35	68	37	76	35	68	35	72	35	71	41	71	35
23	June 4-10 -	35	30	58	35	61	34	68	38	63	32	76	39	65	35	73	36	73	37	76	39	57	36	65	37	69	37	70	43	66	36
24	11-17 -	36	31	42	35	40	34	45	38	41	32	48	40	43	36	40	36	50	38	49	40	43	36	40	37	44	37	58	44	44	37
25	18-24 -	25	30	25	35	28	34	25	38	23	32	30	39	26	35	24	36	22	37	29	39	24	36	26	37	25	37	39	44	26	36
26	25-July 1	18	30	24	34	29	33	25	37	25	32	28	39	26	35	28	35	19	36	29	39	24	35	21	36	24	36	33	43	25	35
27	July 2-8 -	29	30	36	34	47	34	63	38	57	33	73	40	55	36	36	35	54	37	71	40	27	35	48	37	47	37	83	45	51	36
28	9-15 -	64	31	70	36	73	36	72	40	71	35	78	42	73	38	76	37	80	39	82	42	80	37	81	39	80	39	85	47	76	38
29	16-22 -	22	31	29	36	36	36	54	40	46	35	70	43	46	38	27	37	25	38	56	43	18	36	30	38	31	38	70	47	38	38
30	23-29 -	14	30	22	35	53	37	63	41	55	36	67	44	52	38	24	36	48	39	53	43	22	36	31	38	36	38	60	48	44	38
31	July 30-Aug. 5	34	30	48	35	51	37	59	42	47	36	57	44	53	39	40	36	42	39	45	43	32	35	36	38	38	38	51	48	46	39
32	Aug. 6-12 -	38	31	50	36	54	38	70	43	57	37	76	46	61	40	57	37	66	40	60	44	41	36	42	38	53	39	70	49	57	39
33	13-19 -	36	31	32	36	47	38	65	44	64	38	76	47	56	40	57	38	70	41	65	44	58	36	54	39	61	40	74	50	59	40
34	20-26 -	17	30	19	35	26	38	30	43	28	38	37	46	28	40	34	38	38	41	43	44	39	37	45	39	39	40	49	50	33	40
35	Aug. 27-Sept. 2	40	31	44	36	51	38	54	44	51	38	60	47	52	40	46	38	52	41	54	45	44	37	52	39	50	40	65	50	51	40
36	Sept. 3-9 -	26	31	44	36	63	39	60	44	60	39	66	47	59	41	46	38	67	42	73	45	61	37	73	40	63	40	72	51	61	41
37	10-16 -	30	31	29	36	38	39	51	44	46	39	59	48	44	41	36	38	39	42	46	45	30	37	32	40	37	41	56	51	41	41
38	17-23 -	19	30	33	36	46	39	56	45	39	39	59	48	47	41	25	38	22	41	29	45	32	37	30	40	28	40	41	51	37	40
39	24-30 -	36	31	48	36	47	39	52	45	45	39	61	48	52	41	45	38	38	41	40	45	37	37	35	40	39	40	46	51	45	40
40	Oct. 1-7 -	20	30	26	36	31	39	33	44	31	39	36	48	31	41	36	38	38	41	36	45	21	37	31	39	33	40	29	50	33	40
41	8-14 -	18	30	34	36	34	39	37	44	35	39	41	48	37	41	33	38	53	41	46	45	23	36	31	39	37	40	40	50	37	40
42	15-21 -	24	30	13	35	10	38	21	44	9	38	23	47	15	41	16	37	20	41	19	44	26	36	20	39	21	39	24	49	18	40
43	22-28 -	34	30	28	35	22	38	28	44	25	38	24	47	26	40	23	37	23	41	32	44	31	36	29	39	28	39	22	49	26	39
44	Oct. 29-Nov. 4	10	30	27	35	31	38	37	44	26	38	36	47	32	40	15	37	16	40	19	44	20	36	21	38	18	39	33	49	26	39
45	Nov. 5-11 -	31	30	31	35	40	38	38	43	37	38	33	46	37	40	22	36	24	40	34	43	29	36	34	38	29	39	37	49	29	39
46	12-18 -	10	29	8	35	15	38	8	43	14	38	12	46	12	40	17	36	12	39	22	43	23	36	24	38	20	39	29	48	15	39
47	19-25 -	21	29	18	34	23	37	20	43	20	37	19	46	19	39	33	36	32	39	33	43	38	36	41	38	35	38	18	48	28	38
48	Nov. 26-Dec. 2	15	29	17	34	11	37	8	42	12	37	16	45	13	39	18	36	24	39	30	43	15	35	11	38	20	38	22	47	17	38
49	Dec. 3-9 -	24	29	33	34	27	37	25	42	40	37	37	45	32	38	28	36	32	39	44	43	31	35	30	38	34	38	46	47	32	38
50	10-16 -	3	29	6	34	21	37	29	42	21	37	26	45	21	38	13	36	14	39	22	43	15	35	21	37	17	38	20	47	19	38
51	17-23 -	15	29	21	34	13	36	10	41	11	36	9	44	12	38	5	35	5	38	14	42	23	35	19	37	14	38	20	47	14	38
52	Dec. 24-30 -	7	28	12	34	16	36	13	41	10	36	12	44	12	38	6	35	8	38	8	42	4	35	9	37	8	37	6	46	10	37

Meteorological Office,
South Kensington, London, S.W.,

February 22nd, 1912.

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Thirty-fourth Year.
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APPENDIX III.

[*Price 4d.*

SUMMARY OF GALES RECORDED AT ANEMOGRAPH STATIONS IN 1911.

TABLE I.—NUMBER OF HOURS in each Month of MEAN Wind Velocity equivalent to Gale Force (39 miles, or more, in an hour; Force 8 and upwards).

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
0. Scotland, North :—Deerness	23	5	8	3	3	0	0	0	0	7	12	26	87
1. Scotland, East :—Aberdeen	0	0	0	0	0	0	0	0	0	0	0	0	0
2. England, North East :—Alnwick	0	0	0	0	0	0	0	0	0	0	0	0	0
South Shields ...	0	9	0	0	0	0	0	0	0	0	9	5	23
3. England, East :—Yarmouth	0	0	18	3	0	0	0	0	0	0	4	0	25
Gorleston	4	0	3	1	0	0	0	0	8	0	0	6	22
Shoeburyness	0	5	4	2	0	0	0	0	0	3	1	7	22
4. Midland Counties :—Pyrton Hill	0	0	0	0	0	0	0	0	0	0	0	0	0
5. England, South East :—Dover	8	9	25	0	0	—	—	—	—	—	—	—	—
Warlingham	0	0	0	0	0	0	0	0	0	0	0	0	0
Brighton	0	0	0	0	0	0	0	0	0	0	0	1	1
Kew	0	0	0	0	0	0	0	0	0	0	0	0	0
South Kensington ...	0	0	0	0	0	0	0	0	0	0	0	0	0
6 (*a*). Scotland, West :—Eskdalemuir	12	24	6	0	0	2	0	0	0	2	21	0	67
Glasgow	0	0	0	0	0	0	0	0	0	0	4	0	4
6 (*a*). Isle of Man :—No Station													
7 (*a*). England, North West :—Fleetwood ...	6	23	0	3	0	7	0	0	2	13	29	3	86
Southport ...	0	32	0	0	0	0	0	0	0	4	32	4	72
Stonyhurst ...	0	0	0	1	0	0	0	0	0	0	0	0	1
7 (*b*). North Wales :—Holyhead	10	15	0	3	0	0	0	0	0	0	21	7	56
Dwyran*	*12*	*41*	*2*	*18*	*11*	*4*	0	0	0	11	27	34	160
8 (*a*). South Wales :—No Station													
8 (*b*). England, South West :—Falmouth ...	0	0	0	0	0	0	0	0	0	0	0	0	0
Pendennis Castle	59	44	49	26	11	0	0	0	1	49	63	115	417
Plymouth ...	2	0	0	15	0	—	—	—	—	—	—	—	—
9. Ireland, North :—Armagh	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Ireland, South :—Dublin, Phœnix Park ...	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingstown	0	27	8	0	0	0	0	0	0	1	20	13	69
Quilty	0	0	0	2	0	0	0	0	0	0	62	15	88
Roche's Point	3	4	4	4	0	3	0	1	3	7	9	24	62
Valencia	0	4	0	1	0	0	0	0	0	0	13	5	23
11. English Channel :—Scilly	17	28	24	17	0	0	0	0	4	20	11	72	193
†Gibraltar	0	0	0	0	0	0	0	0	0	0	0	4	4
St. Helena	0	0	0	0	0	0	0	0	1	0	0	0	1

* Llaneugrad, January to June.

† Height of vane of pressure tube anemometer 40 feet (above ground).

TABLE II.—OCCASIONS OF "STRONG GALE"—Winds of Mean Velocity, 47 or more miles in an hour, Force 9 and upwards.

District and Station.	Date, 1911.	Duration		Direction.	Maximum Velocity		Time during which velocity exceeded 39 miles per hour.
		From	To		in an hour.	in a gust.	
0. Deerness	October 30 ...	18h. 30m. ...	22h. 30m. ...	W.S.W.	51	—	17h. 30m. to 22h. 30m.
	November 4 ...	10h. 30m. ...	14h. 30m. ...	W.S.W.	51	—	9h. 30m. to 16h 30m.
	December 7 ...	3h. 30m. ...	4h. 30m. ...	S.S.E.	48	—	22h. 30m. 6th to 5h. 30m. 7th.
2. South Shields	November 5 ...	16h. 30m. ...	19h. 30m. ...	W. by N.	50	78	11h. 30m. to 20h. 30m.
3. Shoeburyness	December 10 ...	10h. 30m. ...	13h. 30m. ...	—	48	61	10h. 30m. to 17h. 30m.
5. Dover	January 12 ...	7h. 30m. ...	10h. 0m. ...	—	52	71	6h. 30m. to 14h. 30m.
	March 26 ...	8h. 30m. ...	14h. 30m. ...	—	48	65	4h. 30m. to 18h. 30m.
6. Eskdalemuir	January 24 ...	18h. 30m. ...	20h. 30m. ...	—	50	64	17h. 30m. to 22h. 30m.
	February 16 ...	22h. 30m. ...	23h. 30m. ...	—	47	68	22h. 30m. 16th to 3h. 30m. 17th.
	,, 17 ...	4h. 30m. ...	5h. 30m. ...	—	48	73	4h. 30m. to 6h. 30m.
	March 2 ...	10h. 30m. ...	11h. 30m. ...	—	48	59	9h. 30m. to 11h. 30m.
	November 5 ...	?	16h. 30m. ...	—	62	90	? 23h. 30m. 4th to 19h. 30m. 5th.

(24170—24.) Wt. 173—814. 450. 5/12. D & S.

TABLE II.—OCCASIONS OF "STRONG GALE"—Winds of Mean Velocity, 47 or more miles in an hour, Force 9 and upwards—*continued.*

District and Station.	Date, 1911.	Duration		Direction.	Maximum Velocity		Time during which velocity exceeded 39 miles per hour.
		From	To		in an hour.	in a gust.	
7 (*a*). Fleetwood	February 24 ...	5h. 30m. ...	6h. 30m. ...	W.	47	—	22h. 30m. 23rd to 10h. 30h. 24th.
	„ 26 ...	4h. 30m. ...	6h. 30m. ...	W.N.W.	51	—	1h. 30m. to 11h. 30m.
	November 5 ...	10h. 30m. ...	22h. 30m. ...	W.S.W.	57	—	2h. 30m. 5th to 0h. 30m. 6th.
Southport	February 26 ...	1h. 30m. ...	6h. 30m. ...	W.N.W.	48	72	1h. 30m. to 11h. 30m.
	November 5 ...	4h. 30m. ...	21h. 30m. ...	W.S.W.	57	80	2h. 30m. 5th to 1h. 30m. 6th.
7 (*b*). Holyhead	January 11–12	23h. 30m. 11th	0h. 30m. 12th	N.N.W.	48	65	21h. 30m. 11th to 6h. 30m. 12th.
	November 5 ...	9h. 30m. ...	16h. 30m. ...	W.S.W.	51	75	2h. 30m. to 19h. 30m.
Llaneugrad	February 23 ...	7h. 30m. ...	8h. 30m. ...	—	47	66	0h. 30m. to 10h. 30m.
Llaneugrad	April 19 ...	7h. 15m. ...	12h. 30m. ...	—	54	73	3h. 30m. to 17h. 30m.
Dwyran	October 30 ...	10h. 25m. ...	11h. 5m. ...	—	48	66	0h. 30m. to 11h 30m.
	November 5 ...	9h. 30m. ...	13h. 30m. ...	—	48	70	3h. 30m. to 15h. 30m.
	December 18 ...	10h. 30m. ...	Noon	—	48	69	4h. 30m. to 12h. 30m.
8 (*b*). Pendennis Castle ...	January 12 ...	4h. 30m. ...	14h. 0m. ...	N.	54	66	23h. 30m. 11th to 16h. 30m. 12th.
	„ 30-31	17h. 45m. 30th	16h. 30m. 31st	E.	53	66	9h. 30m. 30th to 22h. 30m. 31st.
	February 23 ...	6h. 30m. ...	18h. 30m. ...	—	51	66	3h. 30m. to 22h. 30m.
	March 10 ...	14h. 30m. ...	17h. 30m. ...	S.S.W.	47	62	12h. 30m. to 23h. 30m.
	„ 17–18 ...	21h. 30m. 17th	5h. 30m. 18th	E.	51	62	18h. 30m. 17th to 7h. 30m. 18th.
	April 18–19 ...	15h. 30m. 18th	9h. 30m. 19th	S.	52	68	14h. 30m. 18th to 15h. 30m. 19th.
	October 21 ...	2h. 30m. ...	7h. 30m. ...	S.S.E.	53	68	21h. 30m. 20th to 7h. 30m. 21st.
	„ 22 ...	5h. 30m. ...	6h. 30m. ...	—	49	64	4h. 30m. to 6h. 30m.
	„ 30 ...	6h. 30m. ...	12h. 30m. ...	—	57	71	18h. 30m. 29th to 12h. 30m. 30th.
	November 4–5...	20h. 30m. 4th...	3h. 30m. 5th	S.W.	52	68	18h. 30m. 4th to 4h. 30m. 5th.
	„ 7 ...	6h. 30m. ...	8h. 30m. ...	S.W.	48	63	16h. 30m. to 21h. 30m.
	„ 15 ...	7h. 15m. ...	10h. 50m. ...	—	49	63	3h. 30m. to 11h. 30m.
	„ 15 ...	17h. 30m. ...	19h. 30m. ...	—	50	66	15h. 30m. to 21h. 30m.
	December 4 ...	22h. 30m. ...	23h. 30m. ...	S.S.W.	48	65	17h. 30m. 4th to 0h. 30m. 5th.
	„ 6–7...	18h. 30m. 6th...	3h. 30m. 7th	S.	64	79	17h. 30m. 6th to 4h. 30m. 7th.
	„ 8 ...	10h. 30m. ...	12h. 30m. ...	S.	50	55	7h. 30m. to 14h. 30m.
	„ 10 ...	5h. 30m. ...	10h. 30m. ...	S. to S.W.	57	71	3h. 30m. to 11h. 30m.
	„ 10 ...	18h. 30m. ...	22h. 30m. ...	W.S.W.	53	77	16h. 30m. to 23h. 30m.
	„ 13 ...	0h. 30m. ...	13h. 30m. ...	W.S.W.	61	77	22h. 30m. 12th to 14h. 30m. 13th.
	„ 16 ...	19h. 30m. ...	20h. 30m. ...	S.S.W.	47	58	16h. 30m. to 23h. 30m.
	„ 18 ...	2h. 30m. ...	12h. 30m. ...	S.	59	75	0h. 30m. to 13h. 30m.
Plymouth	„ 6–7...	Midt. 6th ...	4h. 30m. 7th	—	50	61	——
	„ 10 ...	7h. 30m. ...	8h. 30m. ...	—	48	58	——
	„ 13 ...	8h. 30m. ...	9h. 30m. ...	—	47	57	——
10. Kingstown	February 16–17	18h. 30m. 16th	2h. 30m. 17th	W.	53	—	17h. 30m. 16th to 5h. 30m. 17th.
	„ 23 ...	15h. 30m. ...	16h. 30m. ...	W.S.W.	47	—	13h. 30m. to 18h. 30m.
	December 13 ...	8h. 30m. ...	11h. 30m. ...	E.	53	—	5h. 30m. to 12h. 30m.
Quilty	February 23 ...	12h. 30m. ...	13h. 30m. ...	—	47	73	9h. 30m. to 15h. 30m.
	November 4–5...	23h. 30m. 4th...	14h. 30m. 5th	—	50	74	22h. 30m. 4th to 16h. 30m. 5th.
	„ 6 ...	5h. 30m. ...	7h. 30m. ...	—	48	66	23h. 30m. 5th to 10h. 30m. 6th.
	„ 12 ...	17h. 30m. ...	21h. 30m. ...	—	48	68	11h. 30m. 12th to 5h. 30m. 13th.
	December 4–5...	23h. 30m. 4th...	6h. 30m. 5th	—	55	78	21h. 30m. 4th to 9h. 30m. 5th.
Roche's Point	„ 4 ...	18h. 30m. ...	19h. 30m. ...	—	47	64	15h. 30m. to 19h. 30m.
	„ 6 ...	18h. 30m. ...	22h. 30m. ...	—	47	65	13h. 30m. to 21h. 30m.
	„ 18 ...	4h. 30m. ...	8h. 0m. ...	—	48	62	0h. 30m. to 7h. 30m.
Valencia	February 23 ...	12h. 30m. ...	13h. 30m. ...	W.S.W.	47	—	12h. 30m. to 15h. 30m.
	December 4–5...	23h. 30m. 4th...	0h. 30m. 5th	S.W.	47	—	21h. 30m. 4th to 1h. 30m. 5th.
11. Scilly	January 12 ...	4h. 30m. ...	7h. 30m. ...	N.	51	67	22h. 30m. 11th to 11h. 30m. 12th.
	March 17–18 ...	20h. 30m. 17th	0h. 30m. 18th	E.	48	51	15h. 30m. 17th to 3h. 30m. 18th.
	October 22 ...	4h. 30m. and at 14h.	6h. 30m. and 17h.	W.	47	66	4h. 30m. to 6h. 30m. and 11h. 30m. to 23h. 30m.
	December 10 ...	4h. 30m. ...	5h. 30m. ...	S.E.	49	50	4h. 30m. to 5h. 30m.
	„ 10 ...	15h. 30m. ...	23h. 30m. ...	W.	51	64	15h. 30m. 10th to 2h. 30m. 11th.
	„ 13 ...	0h. 30m. ...	5h. 30m. ...	E.S.E.	58	73	22h. 30m. 12th to 7h. 30m. 13th.
	„ 15 ...	2h. 30m. ...	4h. 30m. ...	N.W.	48	63	2h. 30m. to 7h. 30m.
	„ 22 ...	20h. 30m. ...	21h. 30m. ...	N.W.	48	63	19h. 30m. to 23h. 30m.
	„ 25 ...	8h. 30m. ...	9h. 30m. ...	W.	48	60	4h. 30m. to 18h. 30m.
	„ 25 ...	11h. 30m. ...	12h. 30m. ...	W.	47	60	

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, force 10). The entries are additional to those in Table II.

District and Station.	Date, 1911.	No. of Gusts.	Time of occurrence.	Direction.	Maximum Velocity in a Gust.	Mean Velocity per hour in which Maximum gust occurs.
1. Aberdeen	January 1 ...	1	At 1h. 10m.	S.W.	60	26
	February 16 ...	2	At 22h. 25m.	N.W.	62	28
	„ 17 ...	36	Between 4h. 50m. and 6h. 50m.	W.N.W.	70	46
	„ 20 ...	1	At 8h. 0m.	W.N.W.	59	27
	„ 23 ...	13	Between 4h. 20m. and 8h. 50m.	N.W.	60	36
	March 13 ...	1	At 13h. 10m.	N.N.W.	58	23
2. Alnwick	February 16 ...	2	At 21h. 10m. and 21h. 15m.	W.S.W.	60	34
	„ 23 ...	2	At 6h. 20m. and 7h. 50m.	S.W.	63	28
	November 5 ...	60	Between 9h. 45m. and 16h. 5m.	S.W.	73	37
South Shields	January 11 ...	3	At 21h. 40m. 21h. 50m. and 23h. 20m. ...	N.N.E.	60	37
	„ 12 ...	7	Between 1h. 0m. and 17h. 30m.	N.	64	—
	February 16–17	65	Between 20h. 0m. 16th and 6h. 0m. 17th ...	W.	73	—
	„ 23 ...	1	At 19h. 10m.	S.W.	58	31
	February 23–24	20	Between 23h. 30m. 23rd and 4h. 5m. 24th...	W.N.W.	66	—
	March 13 ...	1	At 11h. 45m.	N.	59	33
	April 19 ...	2	At 1h. 30m. and 4h. 40m.	S.	58	18
	November 4 ...	2	At 16h. 40m. and 17h. 30m.	S.	69	11
	December 7 ...	1	At 3h. 0m.	S.	56	37
	„ 13 ...	3	At 12h. 20m. 15h. 30m. and 16h. 10m. ...	S.S.E.	56	39
3. Gorleston	February 23 ...	2	At 12h. 10m. and 12h. 30m.	—	58	38
	March 25 ...	11	Between 6h. 10m. and 18h. 15m.	—	61	41
	April 3... ...	1	At 14h. 50m.	—	63	35
	April 5... ...	1	At 5h. 50m.	—	57	35
	September 30 ...	62	Between 14h. 15m. and 23h. 55m.	—	64	44
	December 10 ...	13	Between 13h. 30m. and 15h. 40m.	—	59	44
Shoeburyness	February 22 ...	3	Between 11h. 35m. and 13h. 10m.	W.	59	36
	„ 26 ...	3	Between 9h. 0m. and 9h. 20m.	N.W.	60	40
	March 25 ...	10	Between 11h. 5m. and 13h. 35m.	N.N.E.	59	42
	April 5... ...	2	At 16h. 5m. and 16h. 30m.	N.N.E.	59	37
	September 30 ...	7	Between 11h. 35m. and 21h. 45m.	N.W.	58	30
	October 22 ...	2	At 11h. 40m. and 11h. 50m.	—	57	32
	„ 30 ...	3	Between 12h. 50m. and 15h. 0m.	S.W.	57	40
	November 5 ...	3	At 2h. 0m. 6h. 45m. and 13h. 40m.	—	59	37
	December 20 ...	1	At 14h. 15m.	W.	61	31
4. Pyrton Hill	November 5 ...	3	At 14h. 0m. 14h. 30m. and 17h. 10m. ...	W.	60	30
5. Dover	February 23 ...	6	Between 12h. 10m. and 12h. 40m.	—	59	42
	„ 26 ...	8	Between 5h. 50m. and 11h. 5m.	—	60	42
	March 13 ...	2	At 6h. 55m. and 7h. 10m.	—	57	42
	„ 25 ...	23	Between 8h. 5m. and 22h 40m.	—	63	44
	April 5... ...	1	At 18h. 40m.	—	56	32
	September 30–October 1.	—	A succession of gusts between 20h. 0m. on 30th and 16h. 0m. on 1st.	—	66	—
	„ 22 ...	—	A succession of gusts	—	64	—
	„ 24 ...	3	Between 21h. 25m. and 22h. 5m.	—	58	—
	„ 26 ..	4	Between 14h. 50m. and 15h. 5m.	—	64	40
	„ 30 ...	5	Between 14h. 5m. and 17h. 0m.	—	62	41
	November 4–5...	7	Between 23h. 30m. on 4th and 5h. 20m. 5th.	—	61	40
	„ 8 ...	6	Between 2h. 5m. and 3h. 40m.	—	59	—
	„ 12 ...	3	Between 5h. 10m. and 5h. 20m.	—	58	44
	„ 17 ...	2	At 8h. 5m. and 9h. 25m.	—	57	—
	December 7 ...	1	At 9h. 10m.	—	56	—
	„ 10 ...	—	A succession of gusts	—	67	—
Brighton	January 12 ...	1	At 10h. 15m.	—	56	27
	March 26 ...	1	At 13h. 45m.	—	58	28
	July 29 ...	1	At 18h. 10m.	—	57	19
	October 22 ...	2	At 9h. 50m. and 14h. 15m.	—	60	34
	„ 30 ...	1	At 15h. 20m.	—	56	34
	December 10 ...	Several	Between 9h. and 14h....	—	? 64	38
6. Eskdalemuir	January 11 ...	1	At 5h. 15m.	—	57	45
	February 16 ...	1	At 6h. 30m.	—	57	38
	„ 22 ...	1	At 13h. 30m.	—	58	42
	„ 23 ...	1	At 3h. 55m.	—	57	46
	„ 23–24...	84	Between 20h. 45m. 23rd and 6h. 15m. 24th	—	69	45
	„ 26 ...	14	Between 3h. 40m. and 6h. 20m.	—	66	33
	March 2 ...	6	Between 5h. 30m. and 7h. 5m.	—	66	38
	„ 10 ...	4	Between 13h. 30m. and 15h. 5m.	—	57	38
	April 15 ...	7	Between 4h. 10m. and 4h. 45m.	—	65	38
	October 31 ...	13	Between 12h. 30m. and 17h. 40m.	—	62	43
	November 3 ...	30	Between 11h. 5m. and 19h. 5m.	—	62	39
	December 24 ...	2	At 8h. 20m. and 8h. 25m.	—	57	35

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, force 10). The entries are additional to those in Table II—*continued.*

District and Station.	Date, 1911.	No. of Gusts.	Time of occurrence.	Direction.	Maximum Velocity in a Gust.	Mean Velocity in hour in which Maximum gust occurs.
7 (*a*). Southport	February 18 ...	2	Between 19h. 50m. and 20h. 0m.	W.S.W.	57	35
	„ 22 ...	1	At 8h. 25m.	W.	59	39
	„ 23–24...	24	Between 16h. 5m. 23rd and 5h. 15m. 24th ...	S.W.	68	41
	April 19 ...	7	Between 9h. 35m. and 13h. 10m.	S.	59	38
	October 30 ...	1	At 12h. 5m.	W.S.W.	56	35
	„ 31 ...	2	At 8h. 5m. and 16h. 0m.	W.S.W.	57	39
	November 6 ...	1	At 2h. 50m.	W.	57	40
	December 11 ...	12	Between 6h. 35m. and 7h. 15m.	W.	60	45
7 (*b*). Holyhead	February 18 ...	1	At 18h. 45m.	S.W.	60	35
	„ 22 ...	6	Between 6h. 55m. and 7h. 45m.	S.S.W.	57	41
	„ 23 ...	2	At 17h. 0m. and 17h. 10m.	S.W.	57	40
	„ 23–24	35	Between 20h. 45m. 23rd and 6h. 30m. 24th	S.S.W.	64	46
	„ 26 ...	12	Between 0h. 40m. and 4h. 30m.	W.	60	45
	April 18-19 ...	20	Between 19h. 50m. 18th and 14h. 25m. 19th	S.S.E.	66	41
	October 30 ...	1	At 8h. 10m.	S.W.	56	44
	November 3 ...	5	Between 12h. 30m. and 17h. 30m.	S.S.W.	60	34
	„ 6 ...	6	Between 11h. 10m. 13h. 35m.	W.	63	29
	„ 7 ...	2	Between 19h. 10m. and 19h. 20m.	S.S.W.	61	30
	„ 17 ...	4	Between 15h. 30m. and 16h. 30m.	S.W.	57	37
	December 6-7...	29	Between 20h. 45m. 6th and 2h. 25m. 7th ...	S.	66	39
	„ 13 ...	8	Between 11h. 10m. and 18h. 30m.	S.E.	58	38
	„ 25 ...	3	Between 17h. 10m. and 17h. 45m.	W.S.W.	57	37
Llaneugrad	January 6 ...	12	Between 4h. 45m. and 7h. 50m.	—	58	? 43
	„ 11 ...	1	At 8h. 15m.	—	57	38
	January 11–12	8	Between 23h. 35m. 11th and 6h. 10m. 12 ...	—	57	? 40
	February 16 ...	1	At 22h. 30m.	—	56	—
	„ 18 ...	11	Between 15h. 50m. and 19h. 10m.	—	59	—
	„ 21–22	7	Between 19h. 35m. 21st and 1h. 20m. 22nd	—	57	—
	„ 23 ...	85	Between 2h. 15m. and 16h. 40m.	—	67	—
	„ 24 ...	5	Between 2h. 50m. and 4h. 40m.	—	61	—
	„ 26 ...	11	Between 0h. 55m. and 4h. 45m.	—	59	—
	April 18 ...	10	Between 19h. 55m. and 20h. 20m.	—	67	—
	„ 19 ...	57	Between 3h. 15m. and 16h. 10m.	—	70	—
	May 2	4	Between 4h. 45m. and 7h. 10m.	—	58	—
	„ 3	60	Between 7h. 15m. and 13h. 50m.	—	64	—
	June 22 ...	3	Between 2h. 5m. and 8h. 55m.	—	58	—
Dwyran	October 21 ...	1	At 10h. 30m.	—	57	34
	„ 30 ...	36	Between 6h. 25m. and 10h. 20m.	—	64	—
	November 3 ...	15	Between 14h. 50m. and 19h. 15m.	—	60	—
	„ 4–5	50	Between 23h. 0m. 4th and 9h. 30m. 5th ...	—	63	—
	„ 5 ...	13	Between 13h. 30m. and 16h. 5m.	—	65	—
	„ 7 ...	4	Between 19h. 10m. and 20h. 20m.	—	61	—
	December 2 ...	3	Between 15h. 30m. and 17h. 30m.	—	61	40
	„ 4–5...	25	Between 22h. 30m. 4th and 1h. 30m. 5th ...	—	65	—
	„ 6–7...	50	Between 20h. 55m. 6th and 3h. 25m. 7th ...	—	71	—
	„ 13 ...	27	Between 8h. 0m. and 16h. 45m.	—	65	—
	„ 23 ...	1	At 23h. 15m.	—	57	40
	„ 24 ...	2	At 12h. 20m. and 12h. 30m.	—	58	45
8 (*b*). Pendennis Castle ...	February 18 ...	6	Between 18h. 40m. and 20h. 50m.	—	61	44
	„ 19 ...	3	Between 12h. 25m. and 14h. 0m.	—	59	40
	„ 21–22	7	Between 23h. 40m. 21st and 5h. 25m. 22nd	—	65	30
	March 6 ...	1	At 18h. 5m.	—	56	33
	„ 12 ...	5	Between 17h. 55m. and 20h. 45m.	—	59	36
	„ 13 ...	1	At 3h. 5m.	—	60	32
	May 3 ...	2	At 13h. 50m. and 14h. 45m.	—	57	45
	July 29 ...	1	At 14h. 35m.	—	61	21
	September 30 ...	2	At 12h. 45m. and 1h. 10m.	—	57	42
	October 22 ...	3	Between 13h. 40m. and 23h. 5m.	—	61	36
	November 3 ...	4	Between 12h. 30m. and 21h. 30m.	—	56	43
	„ 5 ...	10	Between 9h. 25m. and 15h. 5m.	—	73	42
	„ 6 ...	4	Between 4h. 55m. and 5h. 40m.	—	63	32
	„ 7 ...	1	At 20h. 40m.	—	72	42
	December 9 ...	1	At 1h. 25m.	—	57	28
	„ 20 ...	1	At 10h. 5m.	—	57	33
	„ 21 ...	1	At 2h. 45m.	—	56	40
	„ 24 ...	5	Between 6h. 55m. and 10h. 45m.	—	62	35
	„ 25 ...	6	Between 4h. 10m. and 14h. 15m.	—	69	32
	„ 26 ...	5	Between 12h. 5m. and 12h. 40m.	—	60	44
Plymouth	January 30 ...	2	At 20h. 10m. and 20h. 20m.	—	57	35
	„ 31 ...	1	At 1h. 45m.	—	57	30
	April 18 ...	28	Between 16h. 0m. and 22h. 50h.	—	64	46
	October 21 ...	6	Between 7h. 0m. and 8h. 50m.	—	61	—

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, force 10). The entries are additional to those in Table II—*continued.*

District and Station.	Date, 1911.	No. of Gusts.	Time of occurrence.	Direction.	Maximum Velocity in a Gust.	Mean Velocity in hour in which Maximum gust occurs.
Plymouth—*cont.* ...	December 6 ...	1	At 21h. 35m.	—	56	—
	„ 7 ...	18	Between 0h. 30m. and 3h. 30m.	—	61	—
	„ 10 ...	2	Between 7h. 0m. and 7h. 10m.	—	57	—
	„ 13 ...	2	Between 7h. 55m. and 8h. 0m.	—	60	—
10. Quilty	February 19 ...	5	Between 1h. 30m. and 10h. 50m.	—	61	34
	„ 22 ...	2	Between 2h. 25m. and 6h. 45m.	—	60	34
	„ 23 ...	28	Between 6h. 5m. and 23h. 45m.	—	67	43
	„ 26 ...	1	At 4h. 5m.	—	59	36
	March 1 ...	1	At 2h. 10m.	—	56	28
	April 19 ...	4	Between 18h. 4m. and 19h. 5m.	—	61	42
	October 30 ...	5	Between 10h. 30m. and 10h. 40m.	—	61	38
	„ 31 ...	1	At 4h. 40m.	—	56	37
	November 3 ...	1	At Noon	—	56	39
	„ 5–6...	55	Between 15h. 20m. 5th and 10h. 0m. 6th ...	—	68	43
	„ 7 ...	1	At 16h. 35m.	—	56	37
	„ 9 ...	20	Between 4h. 30m. and 10h. 5m.	—	60	43
	„ 12 ...	15	Between 14h. 15m. and 17h. 30m.	—	61	44
	„ 12–13	40	Between 21h. 30m. 12th and 4h. 10m. 13th	—	63	45
	„ 29 ...	1	At 23h 30m.	—	56	40
	December 4 ...	25	Between 20h. 20m. and 23h. 30m.	—	65	44
	„ 5 ...	20	Between 6h. 30m. and 8h. 30m.	—	67	44
	„ 25 ...	11	Between 10h. 5m. and 13h. 30m.	—	70	41
Roche's Point	January 11 ...	5	Between 21h. 5m. and 22h. 0m.	—	58	43
	February 19 ...	2	At 11h. 55m. and 12h. 0m.	—	58	37
	„ 23 ...	10	Between 10h. 35m. and 20h. 45m.	—	66	35
	„ 24 ...	1	At 4h. 15m.	—	56	26
	March 8 ...	1	At 18h. 5m.	—	60	23
	„ 18 ...	10	Between 1h. 10m. and 2h. 35m.	—	62	41
	April 18 ...	13	Between 20h. 55m. and 22h. 45m.	—	66	44
	August 2 ...	1	At 15h. 15m.	—	57	38
	October 21 ...	6	Between 13h. 0m. and 14h. 5m.	—	60	40
	„ 26 ...	5	Between 7h. 5m. and 7h. 40m.	—	73	39
	„ 30 ...	12	Between 4h. 5m. and 6h. 55m.	—	64	35
	November 7 ...	1	At 15h. 45m.	—	65	?
	„ 9 ...	2	At 12h. 40m. and 13h. 5m.	—	57	40
	„ 15 ...	1	At 4h. 45m.	—	57	45
	December 4 ...	1	At 23h. 20m.	—	57	31
	„ 8 ...	1	At 9h. 50m.	—	56	31
	„ 18 ...	1	At 20h. 10m.	—	88	33
11. Scilly	January 11 ...	5	Between 23h. 15m. and Midnight	N.	59	40
	„ 12 ...	40	Between Midnight and 10h. 35m.	N.N.E.	69	44
	February 23 ...	4	Between 21h. 0m. and 21h. 30m.	W.	59	42
	„ 24 ...	1	At 2h. 10m.	W.	56	37
	April 18 ...	2	At 23h. 35m. and 23h. 40m.	S.	58	38
	„ 19 ...	1	At 1h. 50m.	S.S.W.	57	37
	September 21 ...	1	At 6h. 35m.	N.W.	62	38
	October 21 ...	5	Between 2h. 0m. and 4h. 30m.	S.S.E.	56	41
	„ 22 ...	12	Between 5h. 10m. and 9h. 35m.	W.	66	46
	„ 22–23...	20	Between 12h. 55m. 22nd and 1h. 15m. 23rd	W.	64	43
	„ 30 ...	1	At 11h. 45m.	S.W.	68	35
	November 5 ...	9	Between 3h. 35m. and 22h. 45m.	W.	63	39
	„ 6 ...	10	Between 2h. 40m. and 11h. 30m.	W.	65	40
	„ 12 ...	47	Between 10h. 15m. and 20h. 55m.	?	68	51
	„ 13 ...	1	At 5h. 10m.	?	60	37
	„ 18 ...	15	Between 19h. 25m. and midnight	?	62	43
	„ 19 ...	26	Midnight and 9h, 45m.	?	61	43
	December 6–7...	9	Between 22h. 45m. 6th and 1h. 25m. 7th ...	?	61	38
	„ 8–9...	9	Between 22h. 20m. 8th and 4h. 10m. 9th ...	?	69	49
	„ 10 ...	47	Between 9h. 5m. and 23h. 45m.	W.N.W.	64	48
	„ 11 ...	2	At 13h. 55m. and 14h. 5m.	W.N.W.	57	33
	„ 12 ...	1	At 23h. 55m.	E.S.E.	57	39
	„ 13 ...	83	Between 0h. 25m. and 11h. 40m.	E.S.E.	73	50
	„ 15 ...	30	Between 3h. 30m. and 6h. 30h.	N.W.	63	46
	„ 18 ...	26	Between 2h. 55m. and 6h. 40m.	S.S.E.	60	38
	„ 21 ...	46	Between 8h. 5m. and 14h. 35m.	N.W.	66	49
	„ 22 ...	50	Between 14h. 35m. and 23h. 15m.	N.W.	66	45
	„ 24–25	47	Between 21h. 5m. 24th and 19h. 0m. 25th ...	W.	70	43
Gibraltar	„ 11 ...	1	At 1h. 40m.	W.	56	45

TABLE IV.

RECORD OF WIND VELOCITY AT ANEMOGRAPH STATIONS IN 1911.

NUMBER OF HOURS during which the MEAN Hourly Velocity came within the limits assigned for the several numbers of the Beaufort scale, with percentage values for each number of the scale.

*** The numbers of the Beaufort Scale are grouped as follows :—
0 calm, 1–3 light winds, 4–7 moderate winds, 8–12 gales and storms.

WESTERN AND SOUTHERN COASTS AND IRISH SEA.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity. In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	* Valencia. Hours.	Per Cent.	‡ Roche's Point. Hours.	Per Cent.	† Scilly. Hours.	Per Cent.	* Falmouth. Hours.	Per Cent.	‡ Pendennis. Hours.	Per Cent.	‡ § Plymouth. Hours.	Per Cent.	‡ Brighton. Hours.	Per Cent.	* Glasgow. Hours.	Per Cent.	* Fleetwood. Hours.	Per Cent.	‡ Southport. Hours.	Per Cent.	* § Holyhead. Hours.	Per Cent.	* Kingstown. Hours.	Per Cent.	†, Dublin. Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·5.	184	2	122	1	134	1	13	0	184	2	147	4	21	0	47	1	3	0	9	0	3	0	63	1	571	7
1	1–3	2–5	0·5–1·5	1,070	12	535	6	412	5	1,492	17	419	5	542	15	735	9	1,483	17	395	5	332	4	446	5	821	9	1,688	19
2	4–7	6–11	2–3	1,668	19	1,320	15	1,481	17	2,944	34	1,012	12	638	18	1,663	19	2,987	34	1,791	20	1,484	17	1,382	16	1,640	19	3,073	35
3	8–12	12–18	3·5–5·5	2,324	27	1,980	23	1,568	18	2,372	27	1,760	20	757	21	2,481	28	2,925	34	2,240	26	2,329	26	1,906	22	1,882	22	1,909	22
4	13–18	19–27	6–8	2,114	24	2,310	26	1,814	21	1,353	16	1,629	19	722	20	2,180	25	1,080	12	2,063	24	2,331	26	2,230	25	1,937	22	916	11
5	19–24	28–36	8·5–10·5	906	11	1,181	14	1,389	16	470	5	1,295	15	331	9	760	9	174	2	1,198	14	1,273	15	1,601	18	1,294	15	199	2
6	25–31	37–46	11–14	356	4	613	7	591	7	114	1	1,069	12	198	5	194	2	22	–	481	5	672	8	888	10	730	8	35	–
7	32–38	47–56	14·5–17	115	1	261	3	335	4	2	–	521	6	52	2	14	–	8	–	211	2	231	3	248	3	283	3	2	–
8	39–46	57–68	17·5–20·5	21	–	55	1	162	2	–	–	290	3	17	–	1	–	4	–	71	1	52	1	50	1	59	1	–	–
9	47–54	69–80	21–24	2	–	7	–	29	–	–	–	102	1	–	–	–	–	–	–	13	–	13	–	6	–	10	–	–	–
10	55–63	81–93	24·5–28	–	–	–	–	2	–	–	–	24	–	–	–	–	–	–	–	2	–	7	–	–	–	–	–	–	–
11	64–75	94–110	28·5–33·5	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
12	above 75	above 110	34 or above.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Number of hours lost from various causes				–	–	376	4	843	19	–	–	454	5	220	6	711	8	30	–	292	3	27	–	–	–	41	–	367	4

EASTERN COASTS AND INLAND STATIONS.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity. In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	* Deerness. Hours.	Per Cent.	* Aberdeen. Hours.	Per Cent.	‡¶ Aberdeen. Hours.	Per Cent.	* Yarmouth. Hours.	Per Cent.	‡ Gorleston. Hours.	Per Cent.	‡ Shoeburyness. Hours.	Per Cent.	‡ § Dover. Hours.	Per Cent.	* Armagh. Hours.	Per Cent.	‡ Alnwick Castle. Hours.	Per Cent.	* Stonyhurst. Hours.	Per Cent.	‡ Pyrton Hill. Hours.	Per Cent.	** § Kew. Hours.	Per Cent.	‡ ‖ Warlingham. Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·5.	23	0	10	0	148	2	18	0	436	5	8	0	261	7	227	3	816	9	134	1	340	4	99	1	240	3
1	1–3	2–5	0·5–1·5	527	6	1,157	13	911	10	563	6	714	8	426	5	307	9	2,842	32	1,982	23	2,258	26	1,143	13	1,630	19	1,173	13
2	4–7	6–11	2–3	1,429	16	3,461	40	1,537	18	2,761	32	1,534	18	943	11	338	9	3,118	36	2,315	26	3,035	35	2,256	26	2,792	32	2,010	23
3	8–12	12–18	3·5–5·5	2,090	24	2,569	29	1,917	22	2,804	32	2,246	26	3,167	36	621	17	1,541	17	2,002	23	2,023	23	2,927	33	2,447	28	2,074	24
4	13–18	19–27	6–8	2,151	24	1,167	13	1,481	17	1,516	17	1,973	23	2,222	25	728	20	858	10	1,114	13	970	11	1,480	17	1,343	15	1,056	12
5	19–24	28–36	8·5–10·5	1,317	15	322	4	575	6	592	7	1,064	12	1,014	12	573	16	152	2	348	4	266	3	398	5	380	4	311	4
6	25–31	37–46	11–14	766	9	70	1	254	3	283	3	563	6	635	7	327	9	13	–	111	1	50	1	106	1	69	1	58	1
7	32–38	47–56	14·5–17	320	4	4	–	28	–	150	2	191	2	160	2	106	3	–	–	11	–	19	–	17	–	–	–	3	–
8	39–46	57–68	17·5–20·5	78	1	–	–	3	–	25	–	22	–	20	–	35	1	–	–	–	–	1	–	–	–	–	–	–	–
9	47–54	69–80	21–24	9	–	–	–	–	–	–	–	–	–	2	–	7	–	–	–	–	–	–	–	–	–	–	–	–	–
10	55–63	81–93	24·5–28	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
11	64–75	94–110	28·5–33·5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
12	above 75	above 110	34 or above.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Number of hours lost from various causes				50	1	–	–	1,906	22	48	1	17	–	163	2	321	9	9	–	61	1	4	–	93	1	–	–	1,835	20

* Robinson cup anemometer, Standard size (9 in. cups, 2 ft. arms).
† Do. do. Smaller size (5 in. cups, 1 ft. arms).
‡ Dines Pressure Tube.
** Robinson Cup Anemometer, Standard Size, *See also* Table I.
§ Five months, January to May only.
‖ Ten months (August and September wanting).
¶ July 20th to September 23rd wanting.

Meteorological Office,

May, 1912.